2004 Medium Duty C Series – Family 2

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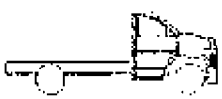
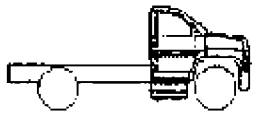
2004 MEDIUM DUTY C SERIES – FAMILY 2

MODEL SYMBOL CHART

			
Conventional Cab Chassis 2 wheel drive	Crew Cab Chassis 2 wheel drive	Motorhome Cutaway Cab Chassis 2 wheel drive	Commercial Cutaway Cab Chassis 2 wheel drive
C4C042 C5C042	C4E042 C5E042	C4U042 C5U042	C4V042 C5V042

MODEL DESIGNATOR KEY:

Position	1	2	3	4	5	6,7
	Division	Model Line	GVW Range	Cab Style	Constant	Chassis Type
	not shown				0	

Division:
C = Chevrolet
T = GMC

Chassis Type:
42 = 2 wheel drive
44 = 4 wheel drive
64 = Tandem
66 = 6 wheel drive

General Information:

RPO Code	VDS Books
X88 = Chevrolet	10 = Family 2
Z88 = GMC	

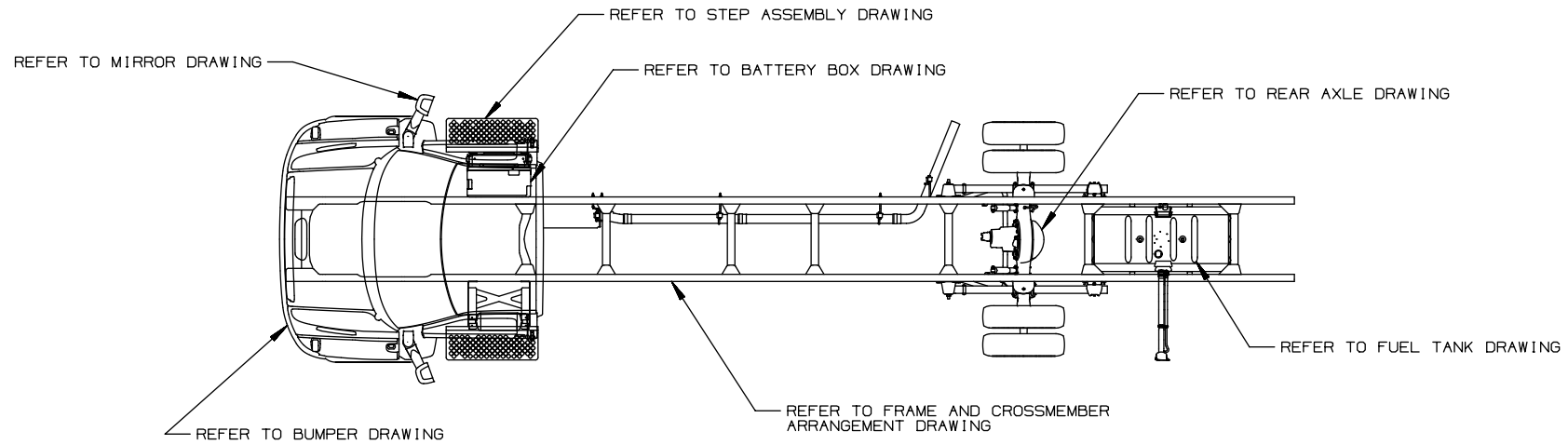
Model Line:
C = C Series
T = T Series

GVW Range:
4 = 16000 - 18000
5 = 18001 - 26000

Cab Style:
C = Conventional
E = Crew
U = Motorhome Cutaway
V = Commercial Cutaway

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5C,U,V042 General Arrangement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REFER TO FUEL TANK DRAWING
REFER TO FRAME AND CROSSMEMBER ARRANGEMENT DRAWING
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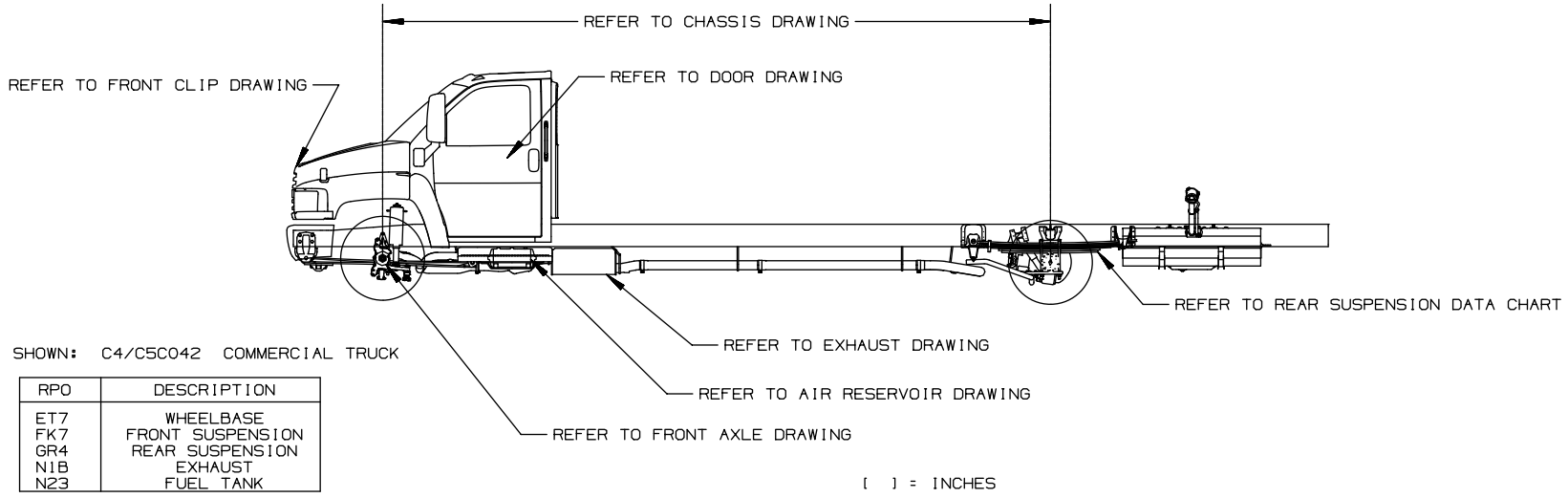
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REFER TO DOOR DRAWING
REFER TO REAR SUSPENSION DATA CHART
REFER TO EXHAUST DRAWING
REFER TO AIR RESERVOIR DRAWING
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SHOWN: C4/C5C042 COMMERCIAL TRUCK

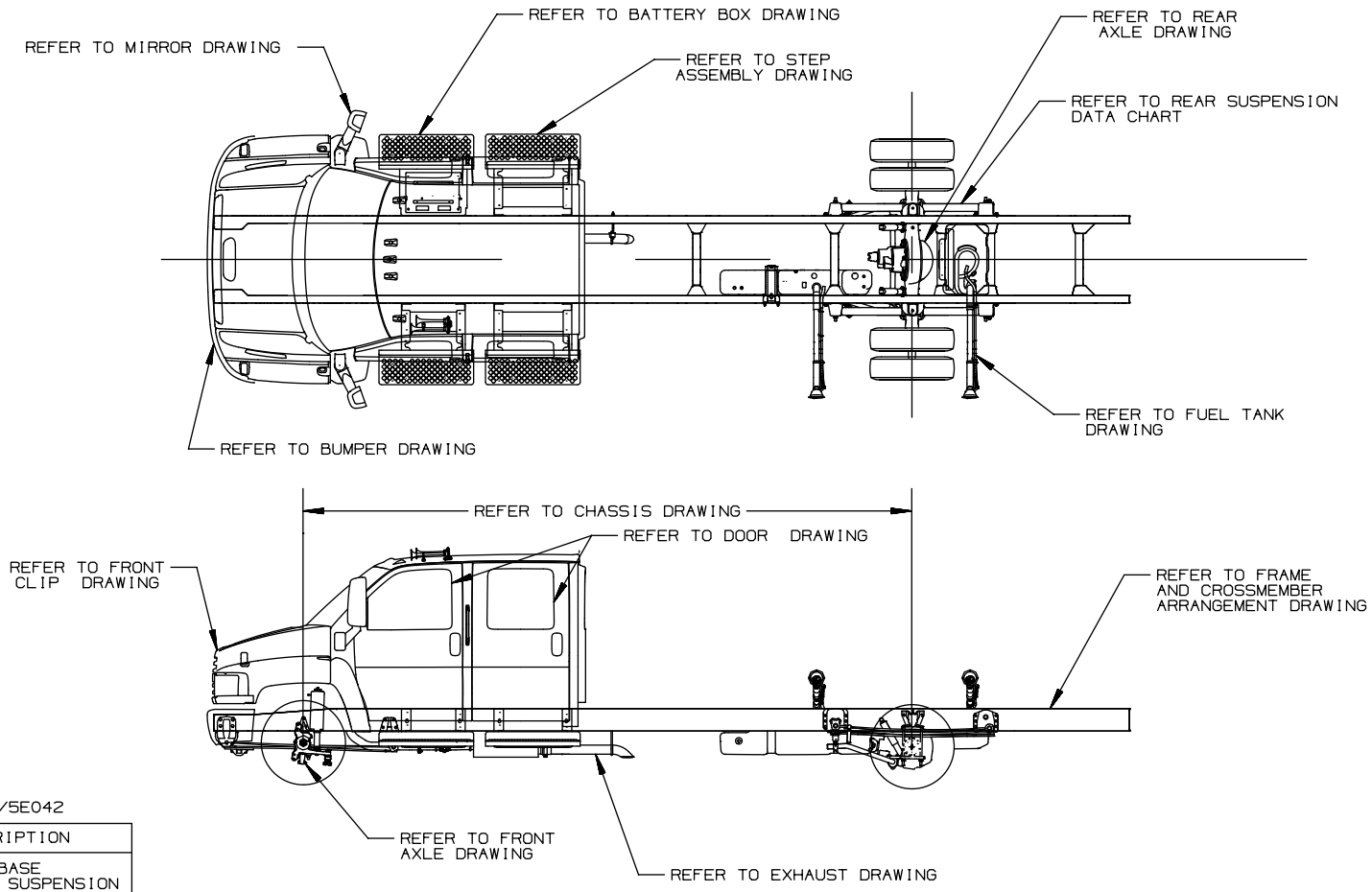
RPO	DESCRIPTION
ET7	WHEELBASE
FK7	FRONT SUSPENSION
GR4	REAR SUSPENSION
N1B	EXHAUST
N23	FUEL TANK

[ ] = INCHES

TD005951

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5E042 General Arrangement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REFER TO CHASSIS DRAWING
REFER TO DOOR DRAWING
REFER TO FRONT CLIP DRAWING
REFER TO FRAME AND CROSSMEMBER ARRANGEMENT DRAWING
REFER TO FRONT AXLE DRAWING
REFER TO EXHAUST DRAWING

SHOWN: C4/5E042

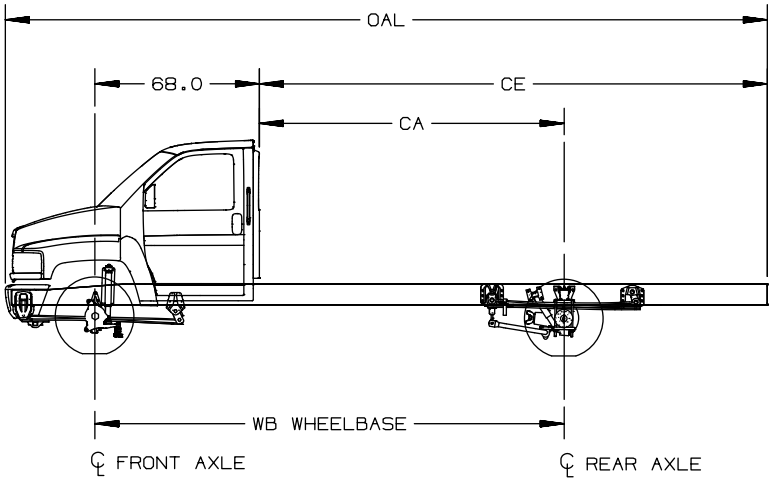
RPO	DESCRIPTION
FRP	WHEELBASE
FK6	FRONT SUSPENSION
GXA	REAR SUSPENSION
NB5	EXHAUST
NG6	FUEL TANK

[ ] = INCHES

TD005952

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5C042 Body Payload Weight Distribution



NOTES:

* PERCENTAGES ALLOWED FOR 3" CB (CAB TO BODY CLEARANCE) AND ARE BASED ON EVEN DISTRIBUTION OF WEIGHT (FORMULA: (CA-CB-1/2BL)/WB CGA OR % FRONT AXLE)

** EFFECTIVE LENGTH IN WHICH FRONT AXLE LOAD IS 6% OR LESS IS NORMALLY POOR DISTRIBUTION

*** N/A ON C4C042

C4C/C5C042 BODY-PAYLOAD WEIGHT DISTRIBUTION (% FRONT / % REAR) *

	DIMENSIONS (IN)				** BODY LENGTHS (FT)													
	WHEELBASE	CA	CE	OAL	8	9	10	12	14	15	16	17	18	19	20	22	24	26
	EC9/128	[60.0]	[100.5]	[205.5]	7/93													
	FQT/140	[72.0]	[145.6]	[250.6]	15/85	11/89	6/94											
	EG9/152	[84.0]	[145.6]	[250.6]		18/82	14/86	6/94										
	EH8/170	[102.0]	[171.6]	[276.6]				16/84	9/91	5/95								
	FNW/176	[108.0]	[177.7]	[282.7]				19/81	12/88	9/91	5/95							
	EK8/188	[120.0]	[204.1]	[309.1]				24/76	18/82	14/86	11/89	8/92	5/95					
***	EK4/194	[126.0]	[210.0]	[315.0]					20/80	17/83	14/86	11/89	8/92	5/95				
***	EK5/206	[138.0]	[222.0]	[327.0]					25/75	22/78	19/81	16/84	13/87	10/90	7/93			
	EK6/224	[156.0]	[240.0]	[345.0]						28/72	25/75	23/77	20/80	17/83	15/85	9/91		
	EE4/254	[186.0]	[278.7]	[383.7]									30/70	27/73	25/75	20/80	15/85	13/87

FOR: GMT 560, C4C0/C5C042, 2004

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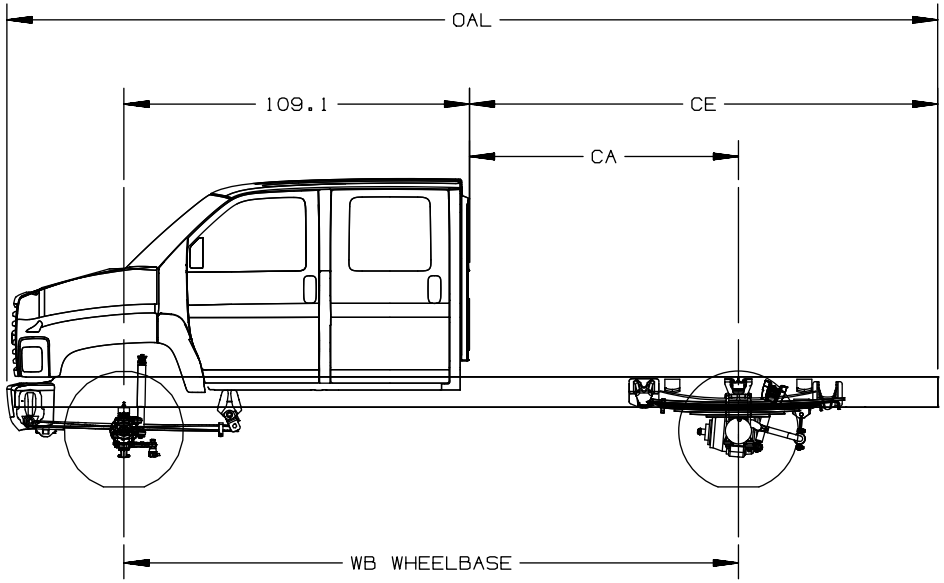
FOR MILLIMETER CONVERSION MULTIPLY X 25.4

TD005843a

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5E042 Body Payload Weight Distribution



NOTES:

* PERCENTAGES ALLOWED FOR 3" CB (CAB TO BODY CLEARANCE) AND ARE BASED ON EVEN DISTRIBUTION OF WEIGHT (FORMULA: (CA-CB-1/2BL)/WB CGA OR % FRONT AXLE)

** EFFECTIVE LENGTH IN WHICH FRONT AXLE LOAD IS 6% OR LESS IS NORMALLY POOR DISTRIBUTION

*** N/A ON C4E042

C6E/C7E/C8E042 BODY-PAYLOAD WEIGHT DISTRIBUTION (% FRONT / % REAR) *

	DIMENSIONS (IN)				** BODY LENGHTS (FT)									
	WHEELBASE	CA	CE	OAL	7	8	9	10	12	14	15	16	17	18
	FPP/169	59.9	121.6	267.6	9/91	5/95								
	EK4/194	84.9	146.6	292.6			14/86	11/89	5/95					
	ED7/217	107.9	191.9	337.9					15/85	10/90	7/93			
	EQ4/229	119.9	203.9	350.0					20/80	14/86	12/88	9/91	7/93	
***	FRP/235	125.9	210.0	356.0						17/83	14/86	11/89	9/91	6/94
	EU5/265	156.0	240.0	386.0							24/76	22/78	19/81	17/83

FOR: GMT 560, C4E0/C5E042, 2004

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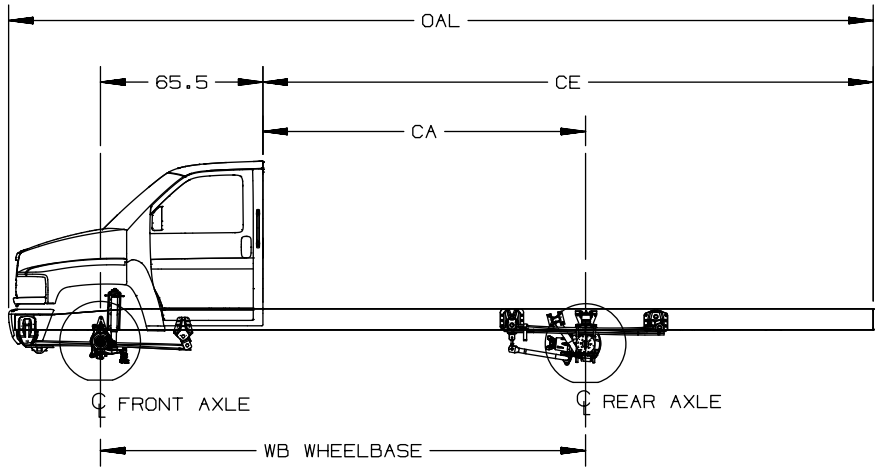
FOR MILLIMETER CONVERSION MULTIPLY X 25.4

TD005846a

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5U042 RV Cutaway Body Payload Weight Distribution



NOTES:

* PERCENTAGES ARE BASED ON EVEN DISTRIBUTION OF WEIGHT (FORMULA: (CA-1/2BL)/WB CGA OR % FRONT AXLE)

** EFFECTIVE LENGTH IN WHICH FRONT AXLE LOAD IS 6% OR LESS IS NORMALLY POOR DISTRIBUTION

*** N/A ON C4U042

C4U0/C5U042 BODY-PAYLOAD WEIGHT DISTRIBUTION (% FRONT / % REAR) *

EXPANDED GVW MOTORHOMES (22,24,26K) SHOULD NOT BE CONFIGURED SUCH THAT FRAME IS SUBJECTED TO REAR BIAS LOADING. REAR BIAS LOADING IS DEFINED AS CENTER OF GRAVITY OF LOAD LOCATED BEHIND REAR AXLE.

	DIMENSIONS (IN)				** BODY LENGTHS (FT)										
	WHEELBASE	CA	CE	OAL	10	12	14	15	16	17	18	19	20	22	24
	EC1/165.5	[100.0]	[183.9]	[286.4]	24/76	17/83	9/91								
	EC2/183.5	[118.0]	[218.4]	[320.9]	31/69	25/75	18/82	15/85	11/89	8/92					
***	EC3/195.5	[130.0]	[245.9]	[348.4]		29/71	23/77	20/80	17/83	14/86	11/89	8/92			
***	EC4/213.5	[148.0]	[264.1]	[366.5]		35/65	29/71	27/73	24/76	21/79	18/82	15/85	13/87	7/93	
	EP5/221.5	[156.0]	[284.0]	[386.4]			32/68	29/71	27/73	24/76	21/79	18/82	16/84	10/90	
***	EQ8/233	(167.5)	(300.0)	(402.4)			35/65	33/67	30/70	28/72	25/75	23/77	20/80	15/85	10/90
***	FXA/239	(173.5)	(286.7)	(389.2)				34/66	32/68	29/71	27/73	24/76	22/78	17/83	12/88

FOR: GMT 560, C4U0/C5U042

[ ]= INCHES

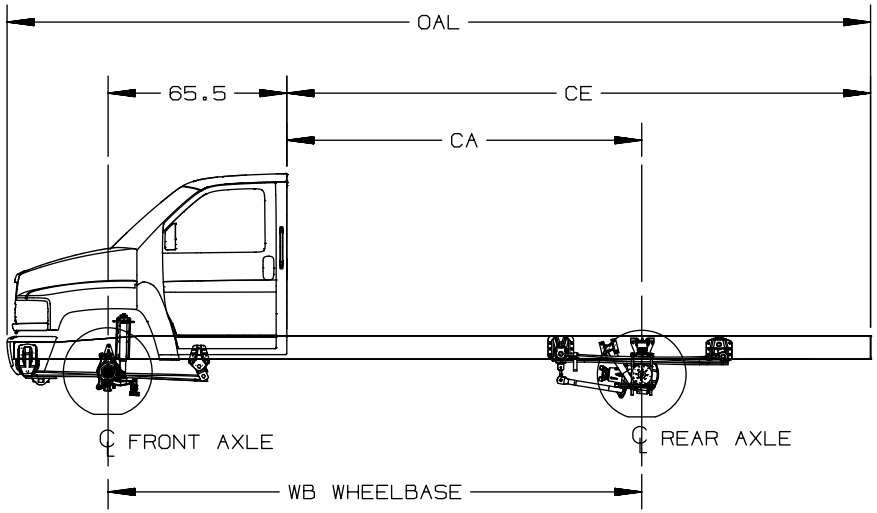
FOR MILLIMETER CONVERSION MULTIPLY X 25.4

6/25/04 REV

TD005844a

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5V042 Commercial Cutaway Body Payload Weight Distribution



NOTES:

* PERCENTAGES ARE BASED ON EVEN DISTRIBUTION OF WEIGHT (FORMULA: (CA-1/2BL)/WB CGA OR % FRONT AXLE)

** EFFECTIVE LENGTH IN WHICH FRONT AXLE LOAD IS 6% OR LESS IS NORMALLY POOR DISTRIBUTION

*** N/A ON C4V042

C4V0/C5V042 BODY-PAYLOAD WEIGHT DISTRIBUTION (% FRONT / % REAR) *

	DIMENSIONS (IN)				** BODY LENGTHS (FT)											
	WHEELBASE	CA	CE	OAL	10	12	14	15	16	17	18	19	20	22	24	26
	EC1/165.5	[100.0]	[170.7]	[273.2]	24/76	17/83	9/91									
	EC2/183.5	[118.0]	[201.8]	[304.3]	31/69	25/75	18/82	15/85	11/89							
	EC3/195.5	[130.0]	[213.9]	[316.3]	35/65	29/71	23/77	20/80	17/83	14/86	11/89	8/92				
	EP5/221.5	[156.0]	[240.0]	[342.5]		37/63	32/68	29/71	27/73	24/76	21/79	19/81	16/84	10/90		
***	EQ8/233	[167.5]	[251.5]	[354.0]			35/65	33/67	30/70	28/72	25/75	23/77	20/80	15/85	10/90	

[ ]= INCHES

FOR: GMT 560, C4V0/C5V042

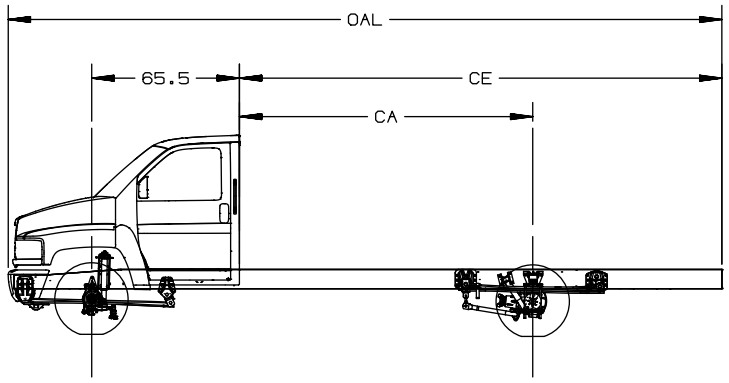
FOR MILLIMETER CONVERSION MULTIPLY X 25.4

6/25/04 REV

TD005844b

2004 MEDIUM DUTY C SERIES – FAMILY 2

Body Payload Weight Distribution – Commercial Cutaway (ANC-Shuttle Bus, B3D-School Bus)



NOTES:

PERCENTAGES ARE BASED ON EVEN DISTRIBUTION OF WEIGHT (FORMULA: (CA-1/2BL)/WB CGA OR % FRONT AXLE)

EFFECTIVE LENGTH IN WHICH FRONT AXLE LOAD IS 6% OR LESS IS NORMALLY POOR DISTRIBUTION

**C4V042/C5V042

*C5V042

C4V0/C5V042 BODY-PAYLOAD WEIGHT DISTRIBUTION (% FRONT / % REAR)

	DIMENSIONS (IN)				** BODY LENGTHS (FT)												RPO	
	WHEELBASE	CA	CE	OAL	10	12	14	15	16	17	18	19	20	22	24	26	ANC/B3D	
**	EC1 165.5	100.0	188.7	291.1	24/76	17/83	9/91										ANC/B3D	
**	EC2 183.5	118.0	206.6	309.1	31/69	25/75	18/82	15/85	11/89								ANC/B3D	
*	EC3 195.5	130.0	218.6	321.1	35/65	29/71	23/77	20/80	17/83	14/86	11/89						ANC/B3D	
*	EC4 213.5	148.0	236.7	339.2		35/65	29/71	27/73	24/76	21/79	18/82	15/85	13/87	7/93			ANC	40 GALLON FUEL TANK
*	EC4 213.5	148.0	262.5	365.0		35/65	29/71	27/73	24/76	21/79	18/82	15/85	13/87	7/93			ANC	60 GALLON FUEL TANK
*	EQE 220	154.5	261.0	363.4		37/63	32/68	29/71	26/74	23/77	21/79	18/82	15/85	10/90			ANC/B3D	
*	EQ8 233	167.5	273.9	376.4			35/65	33/67	30/70	28/72	25/75	23/77	20/80	15/85	10/90		ANC/B3D	
*	EQ1 246	180.5	286.9	389.4				36/64	34/66	31/69	29/71	27/73	24/76	19/81	14/86	9/91	ANC/B3D	
*	ET7 259	193.5	299.9	402.4					37/63	35/65	33/67	30/70	28/72	23/77	19/81	14/86	ANC/B3D	

FOR: GMT 560, C4V0/C5V042, 2004

ANC= SHUTTLE BUS

B3D= SCHOOL BUS

[ ] INCHES

FOR MILLIMETER CONVERSION MULTIPLY X 25.4

6/25/04 REV

TD005844c

Formulas for Calculating Height Dimensions to Top of Frame

Front Axle

Sample Data:

Model	Tire	Tire Loaded Radius	LH	C	D
C5C042	225/70R19.5F R3C/S3C (Goodyear)	15"	8.27"	6.78"	4.83"

Frame Reinforcement RPO	Wheelbase	Suspension RPO	Axle RPO
F08	EG9	FK7 (6,000 lb)	FN9 (6,000 lb)

Formulas:

CH = C + Tire Loaded Radius + LH
DH = D + Tire Loaded Radius + LH

CH = 6.78" + 15" + 8.27" = 30.05"
DH = 4.83" + 15" + 8.27" = 28.1"

Definitions:

C – Centerline of axle to bottom inside of rail at curb position
D – Centerline of axle to bottom inside of rail at design load
LH – Distance from the bottom inside rail to the top of the rail

NOTE: See the tire data charts for the following values: Tire Model and Tire Loaded Radius.
For the C & D values see the Front Axle and Suspension Chart.
For the LH values see the Frame Length with Reinforcements section.

Step Height Dimensions:

When calculating step height dimensions see the step assembly location, and the frame drawings for values.

Formulas for Calculating Height Dimensions to Top of Frame

Rear Axle

Sample Data:

Model	Tire	Tire Loaded Radius	LH	C	D
C5C042	225/70R19.5F S3H (Goodyear)	15.1"	8.35"	8.63"	6.41"

Frame Reinforcement RPO	Wheelbase	Suspension RPO	Axle RPO
F08	EK8	GR4 (13,500 lb)	GL8 (13,500 lb)

Formulas:

CH = Tire Loaded Radius + C + LH
DH = Tire Loaded Radius + D + LH

CH = 15.1" + 8.63" + 8.35" = 32.08"
DH = 15.1" + 6.41" + 8.35" = 29.86"

Definitions:

C – Centerline of axle to bottom inside of rail at curb position
D – Centerline of axle to bottom inside of rail at design load
LH – Distance from the bottom inside rail to the top of the rail

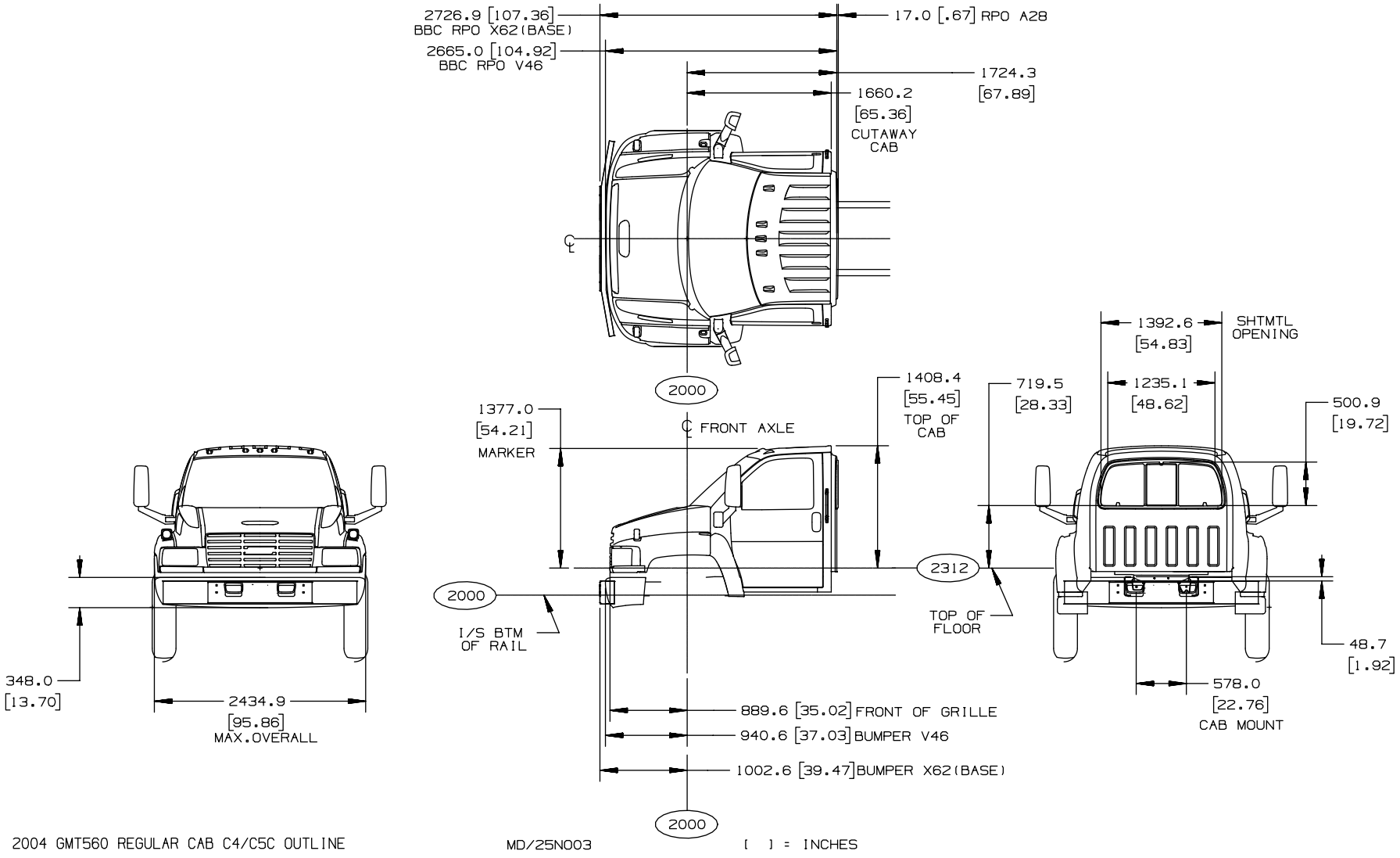
NOTE: See the tire data charts for the following values: Tire Model and Tire Loaded Radius.
For the C & D values see the Rear Axle and Suspension Chart.
For the LH values see the Frame Length with Reinforcements section.

Step Height Dimensions:

When calculating step height dimensions see the step assembly location, and the frame drawings for values.

2004 MEDIUM DUTY C SERIES – FAMILY 2

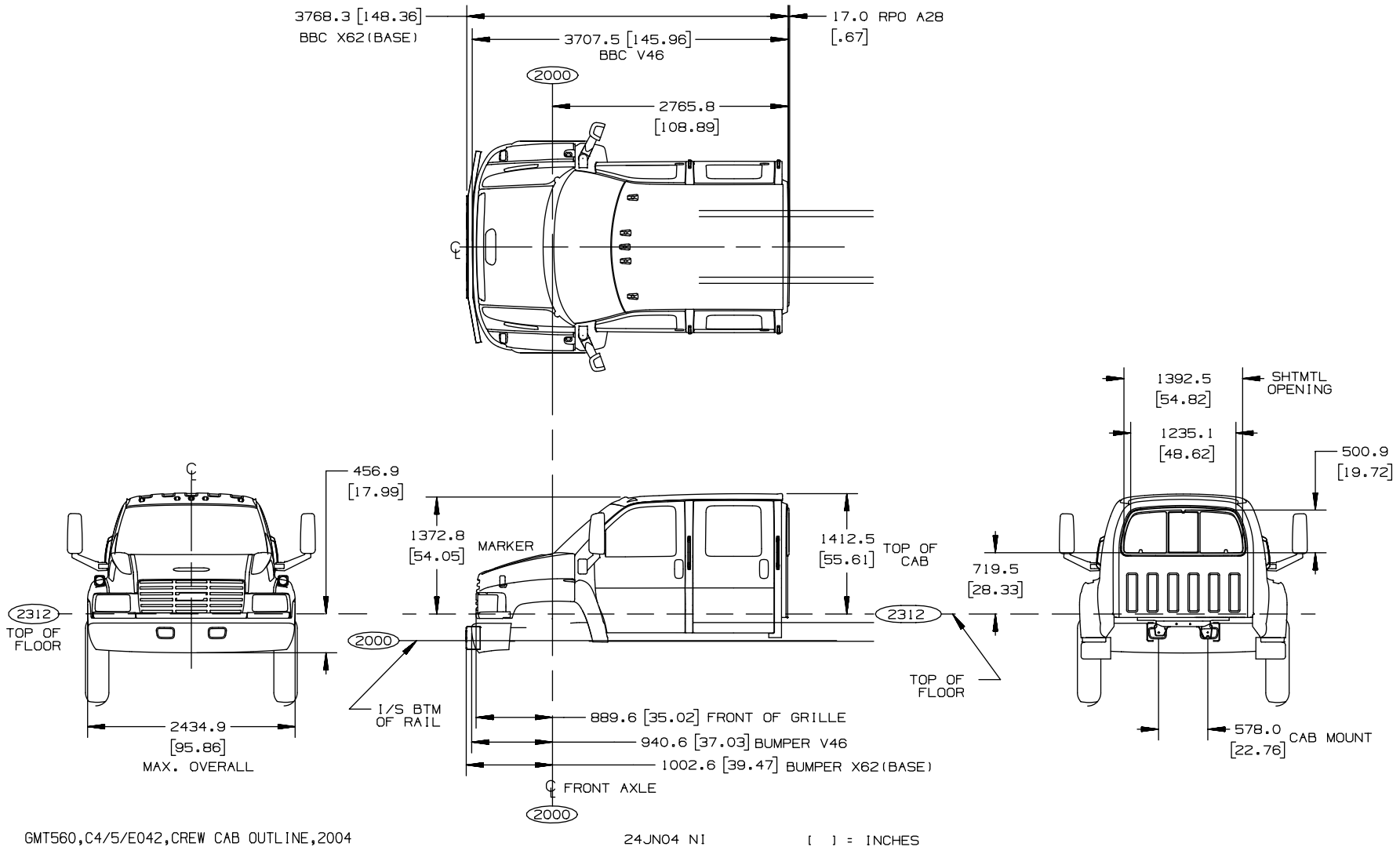
C4/C5C,U,V042 Regular Cab Exterior



TD005861b

2004 MEDIUM DUTY C SERIES – FAMILY 2

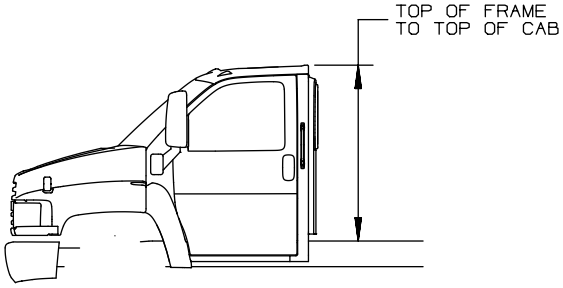
C4/C5E042 Crew Cab Exterior



TD005860a

2004 MEDIUM DUTY C SERIES – FAMILY 2

Cab Heights – Top of Frame to Top of Cab Dimensions



MEDIUM DUTY, C SERIES - FAMILY 2		
	FRAME RAIL THICKNESS	
	6.0 [0.24]	8.0 [0.32]
MODELS	DIMENSION: TOP OF FRAME TO TOP OF CAB	
REG. CAB - (C4/C5C)042/044	1510.4 [59.46]	1508.4 [59.39]
CUTAWAY CAB - (C4/C5U)042&(C4/C5V)042		
CREW CAB - (C4/C5E)042/044	1515.0 [59.64]	1513.0 [59.57]

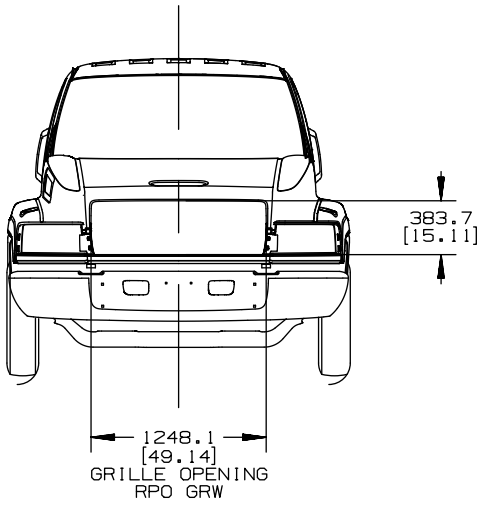
MEDIUM DUTY, C SERIES - FAMILY 3						
	FRAME RAIL THICKNESS			FRAME RAIL THICKNESS		
FRAME OPTIONS #	FD0	FD5	F02	FD0	FD5	F02
	6.0 [0.24]	8.0 [0.32]	10.0 [0.39]	6.0 [0.24]	8.0 [0.32]	10.0 [0.39]
INVERTED L REINF. OPTIONS #				F08	F08/FSA	F20/FSC
				6.0 [0.24]	6.0 [0.24]	6.0 [0.24]
MODELS	DIM: TOP OF FRAME TO TOP OF CAB			DIM: TOP OF FRAME REINF. TO TOP OF CAB		
REG. CAB - (C6/C7/C8C)042/064	1580.5 [62.20]	1578.5 [62.10]	1551.5 [61.10]	1574.5 [62.00]	1572.5 [61.90]	1545.5 [60.80]
CUTAWAY CAB - (C6/C7/C8V)042/064						
CREW CAB - (C6/C7/C8E)042/064	1584.6 [62.40]	1582.6 [62.30]	1555.6 [61.20]	1578.6 [62.10]	1576.6 [62.10]	1549.6 [61.00]

22JN04 NI

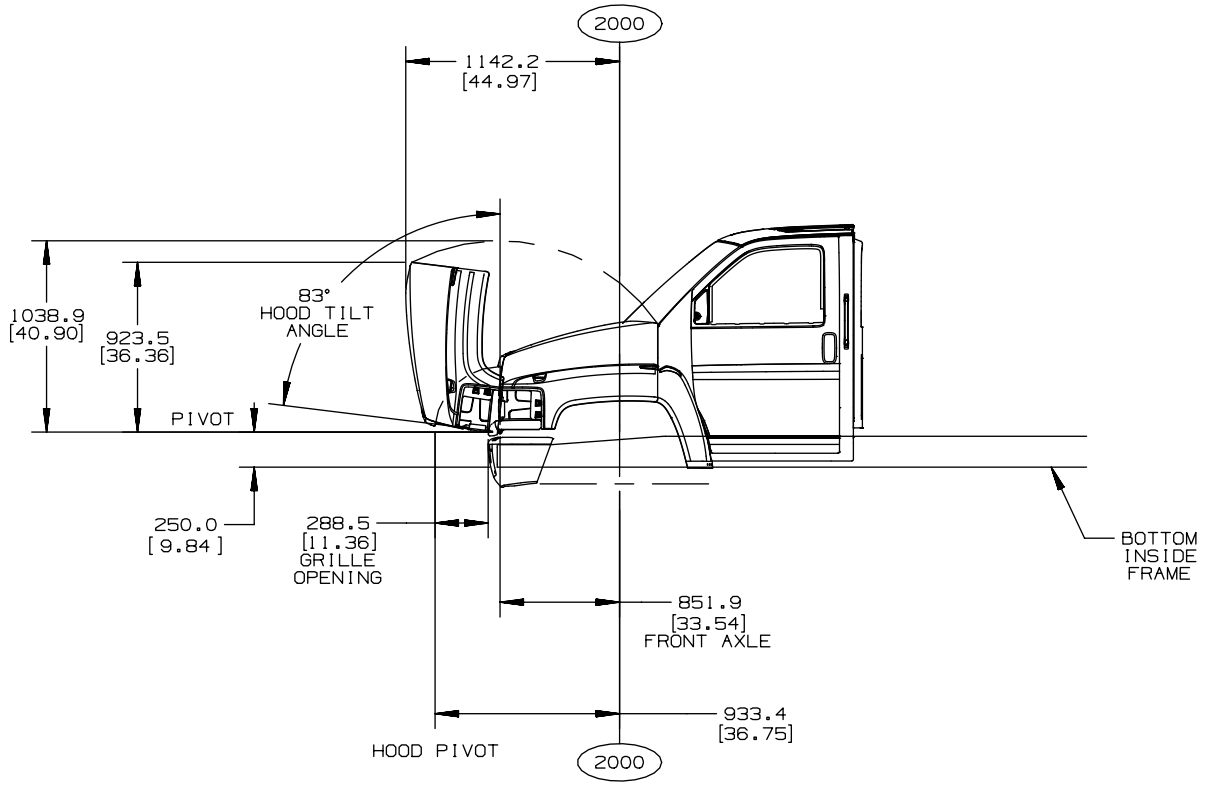
[ ]=INCHES

TD005861d

C4/C5C,E,U,V042 Hood Opening and Swing



NOTE:
ALL VERTICAL DIMENSIONS
ARE FROM THE INSIDE
BOTTOM FLANGE OF FRAME

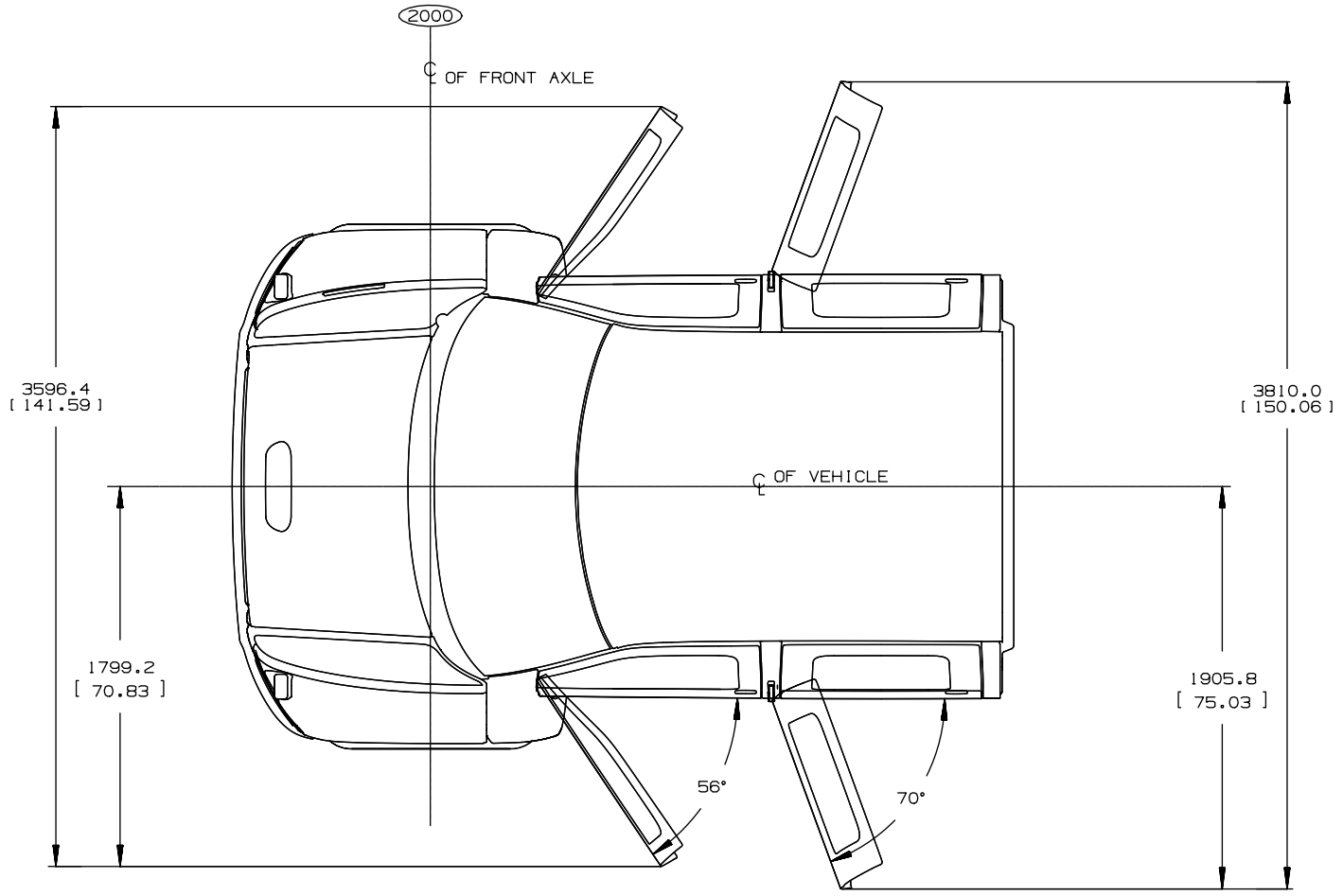


HOOD OPENING & SWING
GMT 560, C4/5, 2003

[ ] = INCHES

TD005847a

C4/C5C,E,U,V042 Door Swing



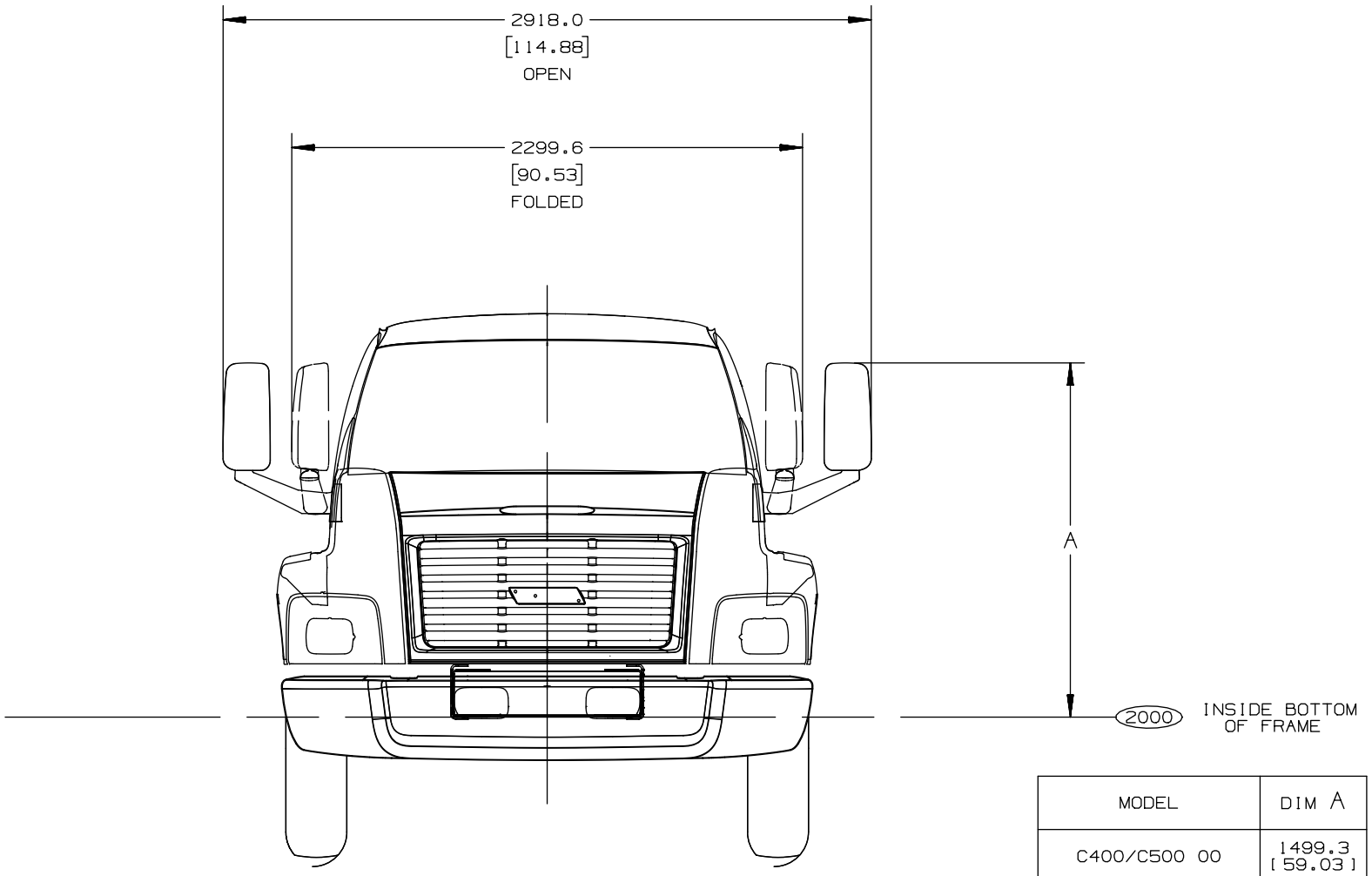
[ ]= INCHES

DOOR SWING GMT 560, C/6/7/8,E042, C8C064, 2003

NOTE:
REAR DOORS ARE FOR
CREW CAB ONLY C8C064

TD005850

C4/C5C,E,U,V042 Mirror



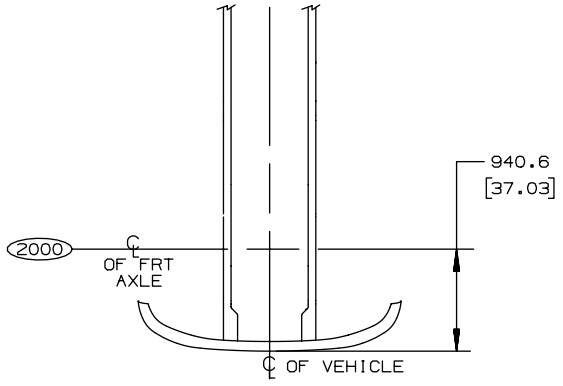
MIRROR ASM-OUTSIDE REAR VIEW
RPO DB5

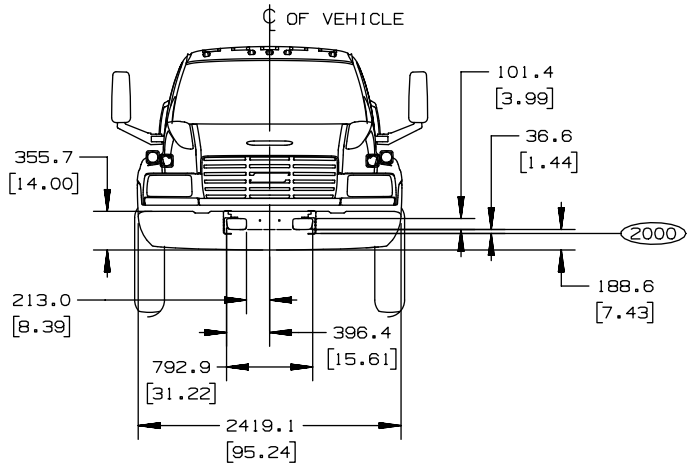
MODEL	DIM A
C400/C500 00	1499.3 [59.03]
C600/C700/C800 00	1594.3 [62.77]

[ ] = INCHES

TD005862

C4/C5C,E,U,V042 Front Bumpers





BASE - VH6: ARGENT
V46: CHROME

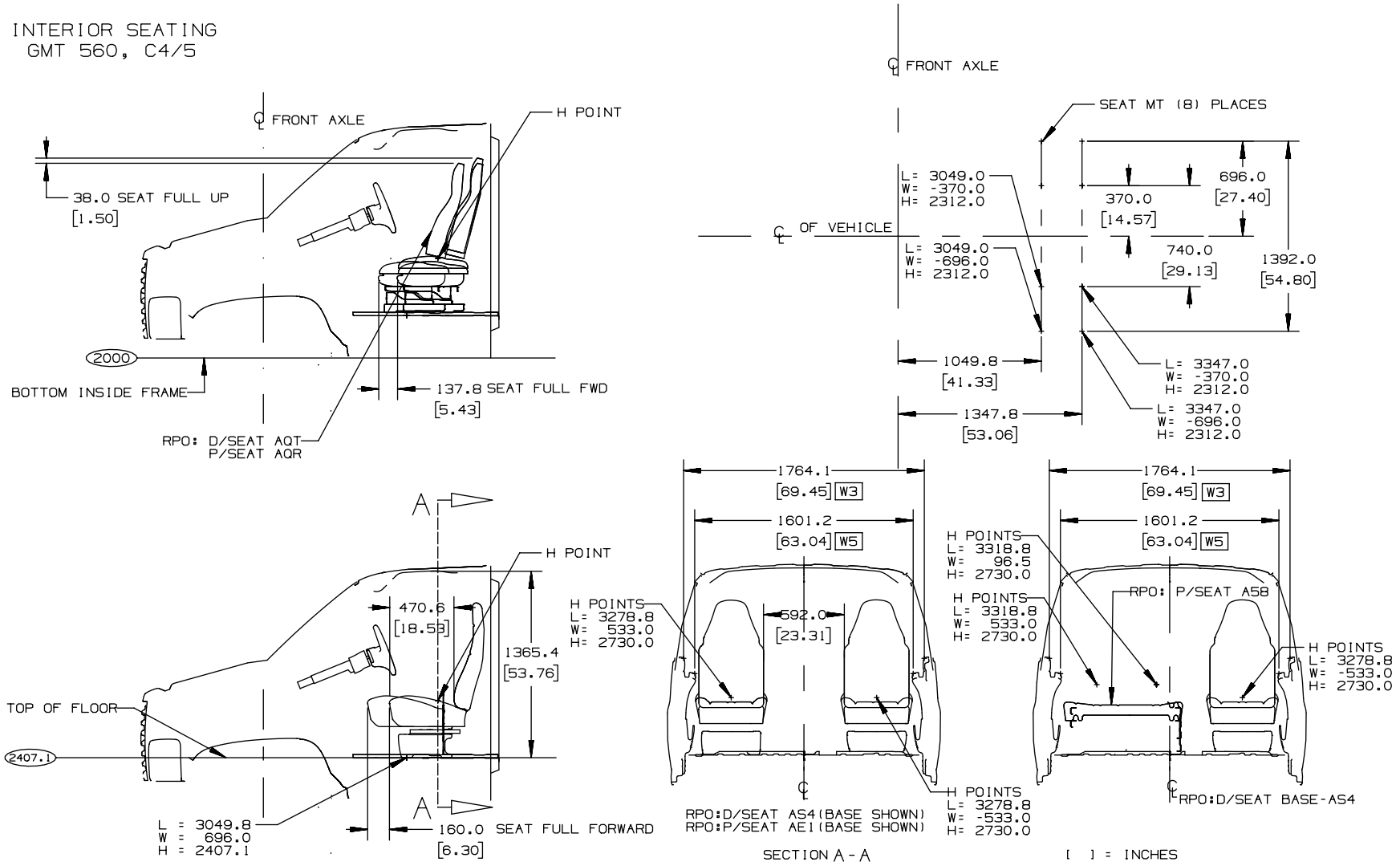
FRONT BUMPER, GMT 560, C4/5

21/JN04 NI

[ ] = INCHES

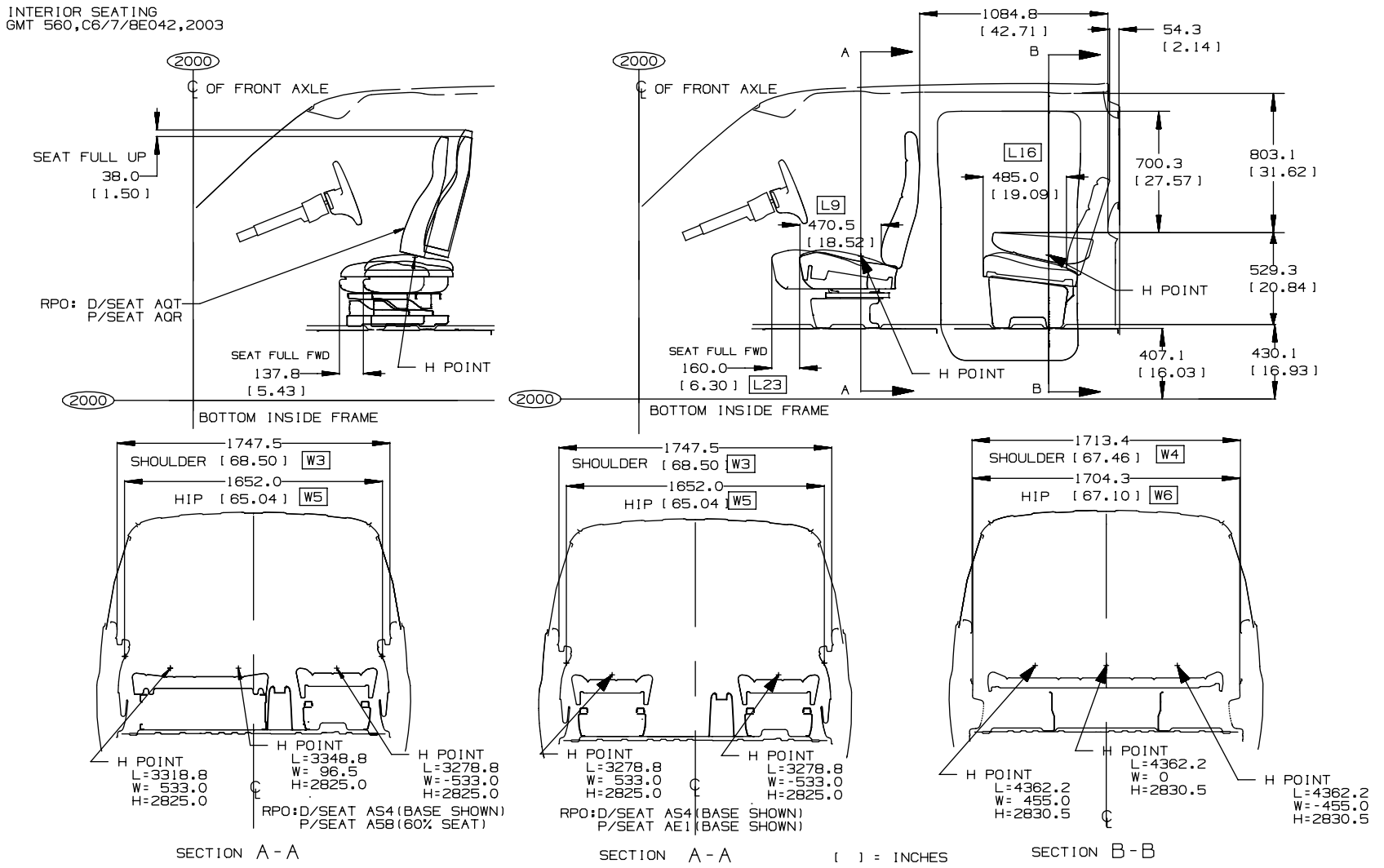
TD005884a

C4/C5C,U,V042 Regular Cab Interior Seating



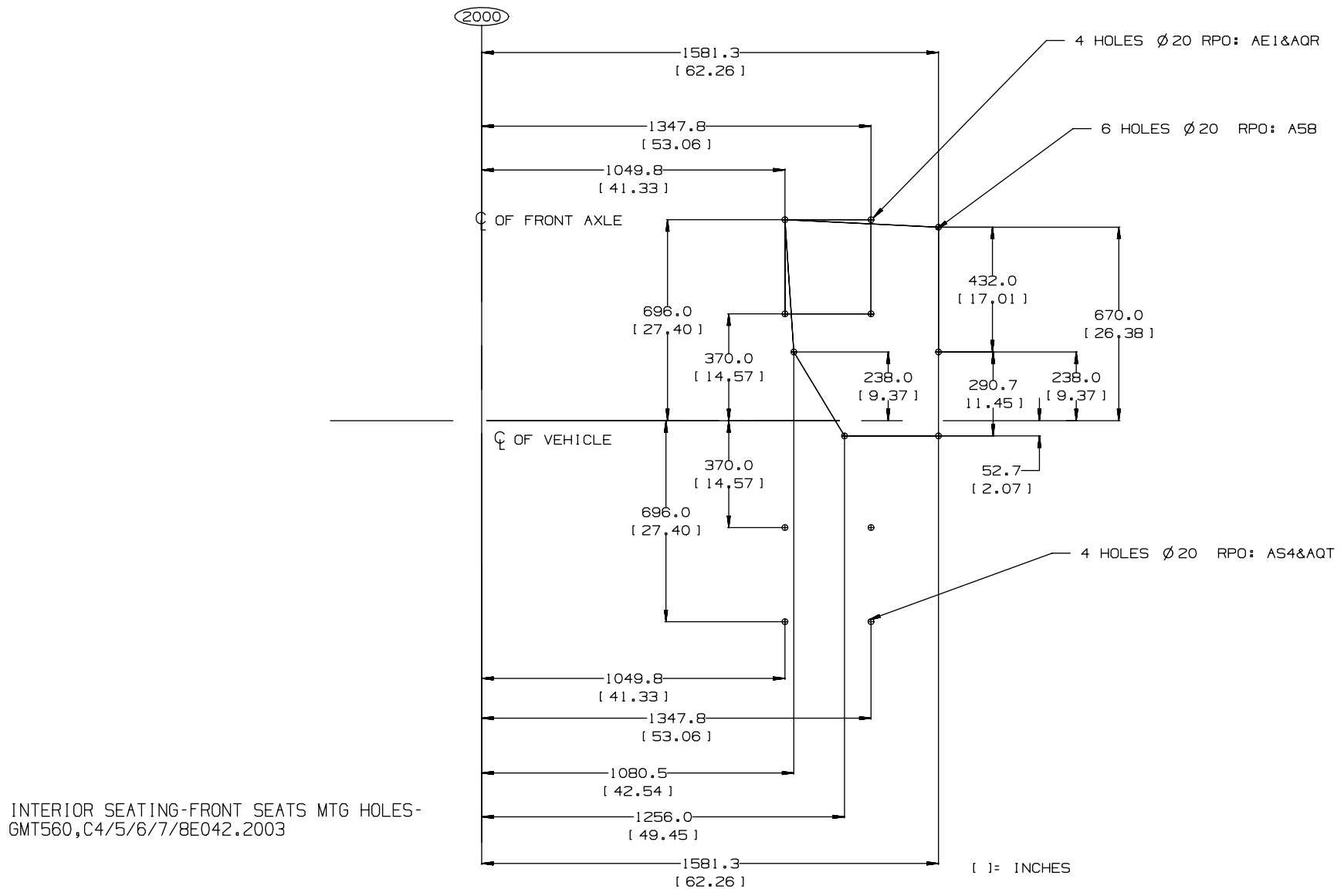
TD005857a

C4/C5E042 Crew Cab Interior Seating



TD005858a

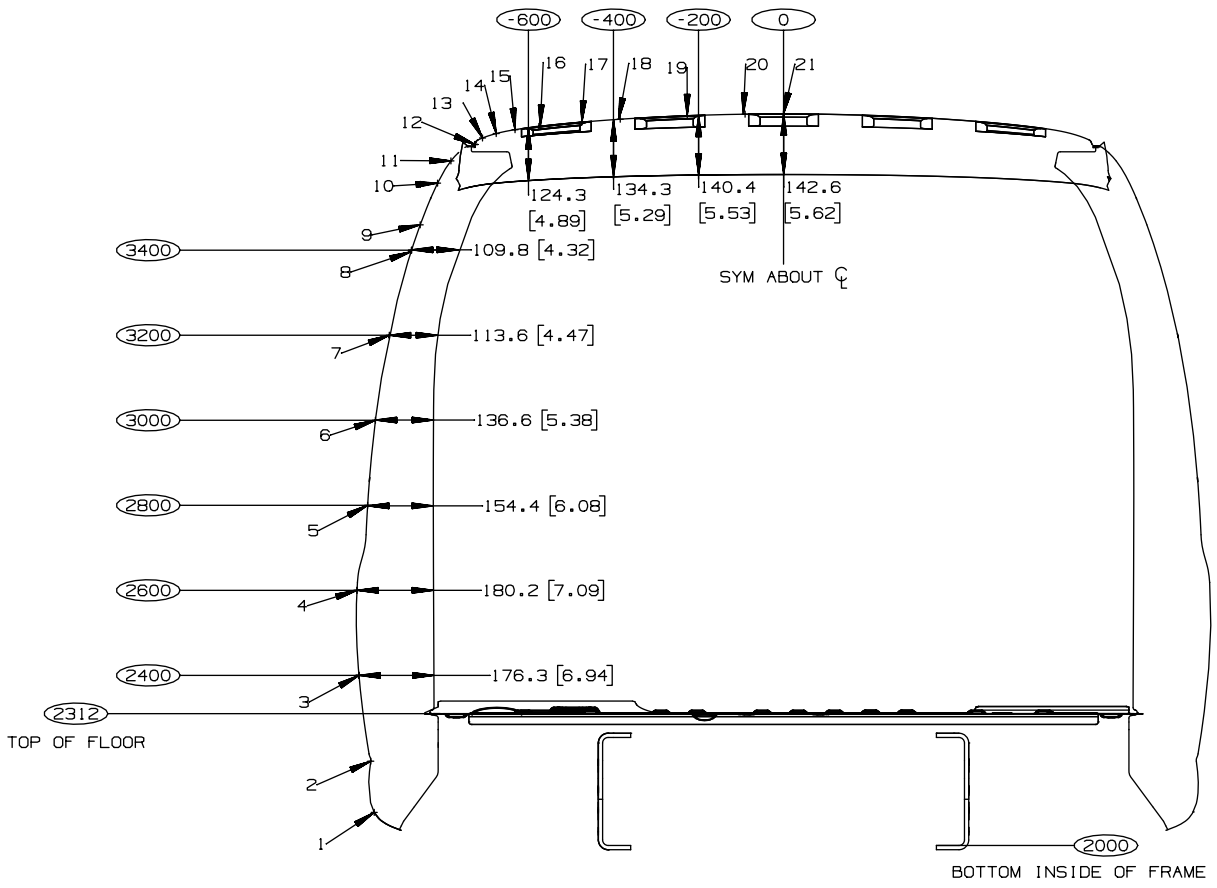
C4/C5 Front Seat Mount Locations



INTERIOR SEATING-FRONT SEATS MTG HOLES-
GMT560,C4/5/6/7/8E042.2003

TD005858c

C4/C5U,V042 Cutaway Rear Flange



PT#	WIDTH	HEIGHT	LENGTH
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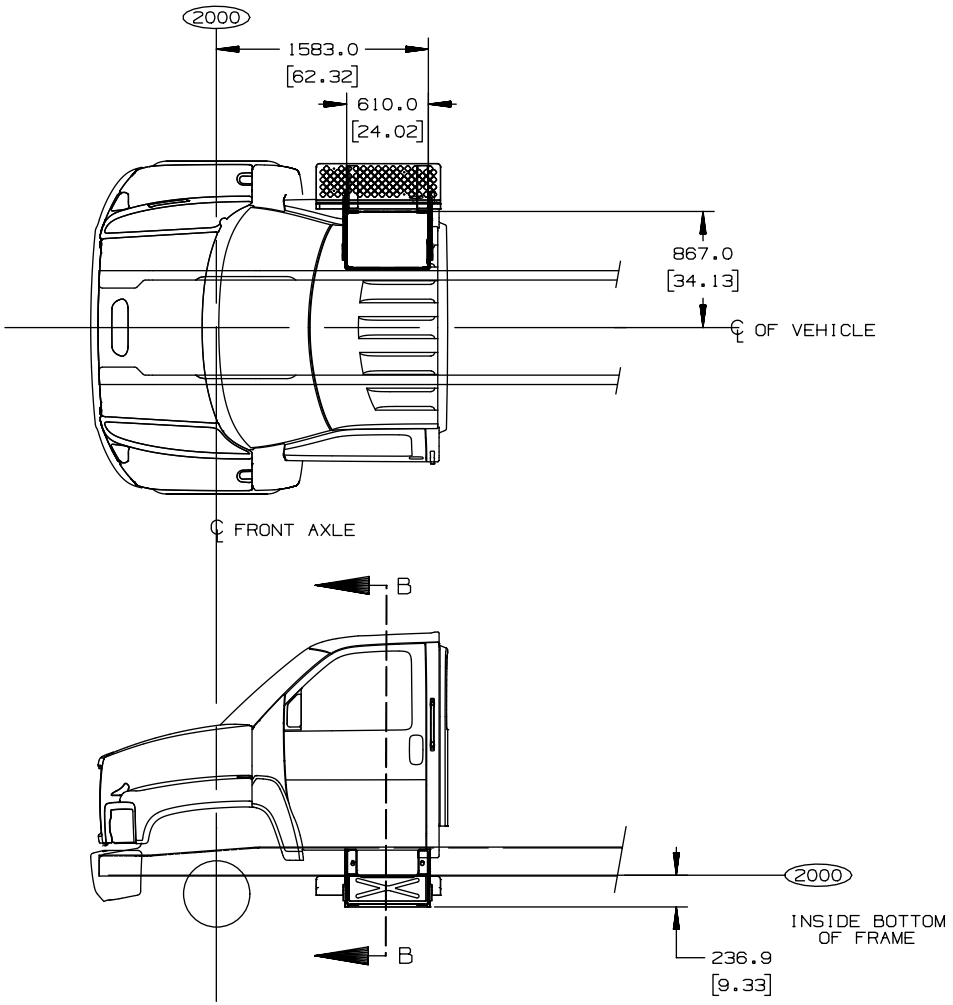
	[-37.90]	[81.80]	[143.82]
2	-970.74	2198.21	"
	[-38.22]	[86.54]	"
3	-998.52	2400.00	"
	[-39.31]	[94.49]	"
4	-1003.23	2600.00	"
	[-39.50]	[102.36]	"
5	-978.09	2800.00	"
	[-38.51]	[110.24]	"
6	-959.83	3000.00	"
	[-37.79]	[118.11]	"
7	-927.14	3200.00	"
	[-36.50]	[125.98]	"
8	-874.92	3400.00	"
	[-34.45]	[133.86]	"
9	-854.51	3459.61	"
	[-33.64]	[136.20]	"
10	-813.61	3557.71	"
	[-32.03]	[140.07]	"
11	-782.24	3610.00	"
	[-30.80]	[142.13]	"
12	-725.58	3648.64	"
	[-28.57]	[143.65]	"
13	-707.95	3663.90	"
	[-27.87]	[144.25]	"
14	-675.71	3674.33	"
	[-26.60]	[144.66]	"
15	-631.44	3683.46	"
	[-24.86]	[145.02]	"
16	-575.43	3691.01	"
	[-22.65]	[145.32]	"
17	-474.22	3701.19	"
	[-18.67]	[145.72]	"
18	-384.05	3708.05	"
	[-15.12]	[145.99]	"
19	-226.47	3716.25	"
	[-8.92]	[146.31]	"
20	-90.43	3719.90	"
	[-3.56]	[146.45]	"
21	0.00	3720.60	3653.12
	[0.00]	[146.48]	[143.82]

C4V042, C5V042

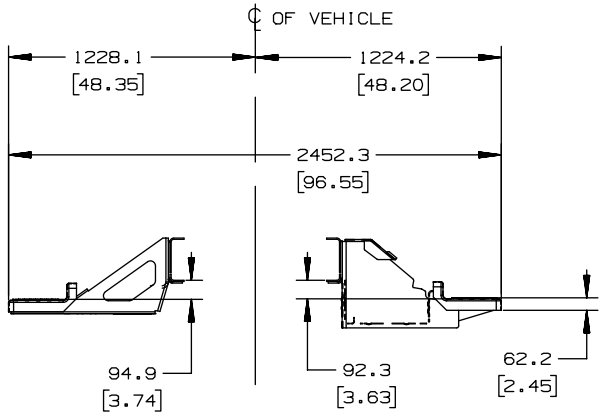
[ ]= INCHES

TD005885a

C4/C5C,U,V042 Step and Battery Box Location



BATTERY BOX LOCATION
GMT 560,C40/C50-042

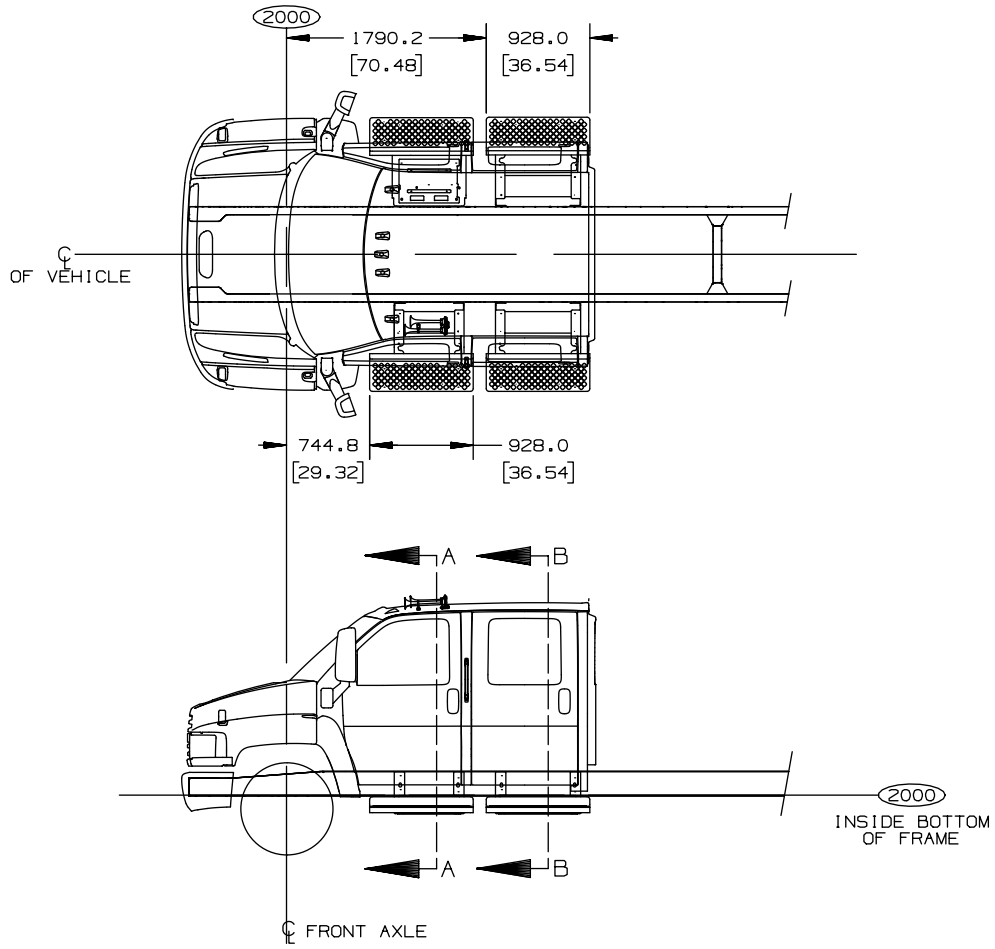


SECTION B-B

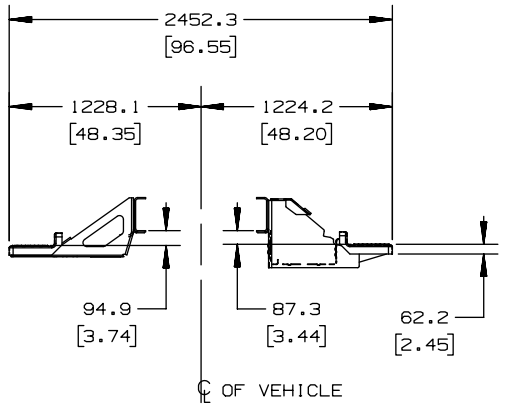
[ ]= INCHES

TD005868a

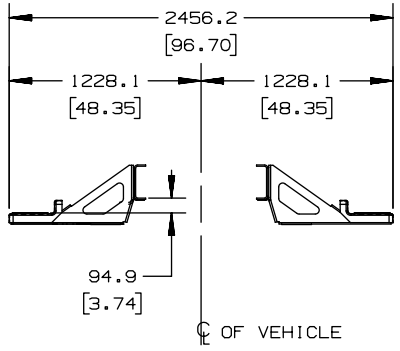
C4/C5E042 Step Location



C4E0/C5E0 00
STEP ASM. LOCATION



SECTION A-A



SECTION B-B

[ ] = INCHES

TD005978

Frame Hardness Specification

- General Motors purchases hot-rolled steel for GMC side rails and reinforcements which has been slit from wide coil, de-coiled to length and pickled and oiled. The steel is then stamped, to insert the hole pattern and profile, by a compound crop and pierce tool. This blank is then formed to rail section prior to being electrophoretically painted. The hot-rolled process imparts a surface texture to the steel, which is retained in the 50 and 80k psi rails.
- As you are aware, the common principle in the “Rockwell” and “Brinell” instruments used to measure hardness is the indentation of the subject surface by a hard object. The difference between the two is that the “Rockwell” instrument utilizes a diamond pyramid, whereas the “Brinell” instrument uses a tungsten carbide ball to indent the surface; and that the “Rockwell” is used on a smooth/polished surface whereas the “Brinell” is used on a uneven surface. With the above in mind, note the data measured in Brinell Hardness Numbers (BHN).
- The 50 Ksi yield material (SAE J1392 050XF) is in the 135-170 BHN range.
- The 80 Ksi yield material (SAE J1392 080XLF) is in the 217-235 BHN range.

Frame Strength and Dimensions

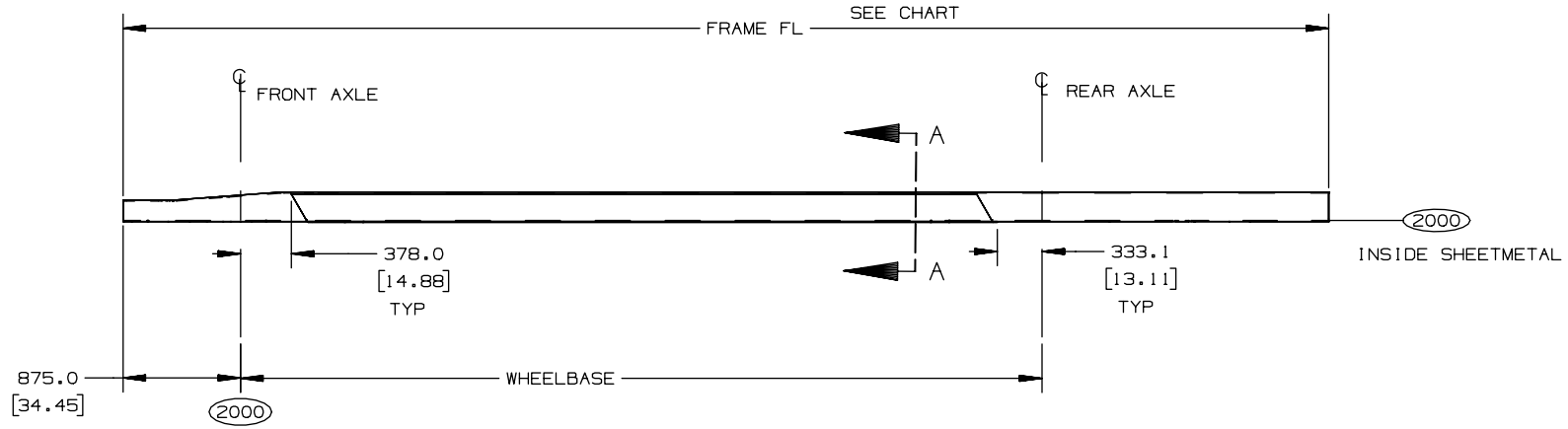
	C4500 or C5500 Wheelbases Greater than 152" (386.1) for Regular Cab Models	C4500 & C5500 Motorhome and C4500 & C5500 Cutaway Chassis with (B3D)	C4500 & C5500 128" (325.1) & 152" (386.1) Wheelbases Models for Regular Cab Models and C4500 & C5500 Cutaway Chassis (w/o B3D)
Material Steel No. or Type	SAE J1392 (-080 XLF)	SAE J1392 (-050 XLK / XLF)	SAE J1392 (-080 XLF)
Material Thickness-in (mm)	0.32 (8)	0.24 (6)	0.24 (6)
Physical Properties: Minimum Tensile or Ultimate Strength psi (kPa)	95,000 (655,000)	60,000 (413,700)	95,000 (655,0000
Minimum Yield Strength psi (kPa)	80,000 (551,600)	50,000 (344,700)	80,000 (551,600)
Resisting Bending Moment (RBM) (Rated Yield Strength x Section Modulus)		50,000 x SM	80,000 x SM
Section Modulus in^3 (cm^3)	10.31 (169)	7.63 (125)	7.63 (317.6)
Rated RBM	824,800	381,500	610,400
Optional Reinforcement RPO	F08	N/A	F08 (C4C/C5C only)
Reinforcement Type	Upright "L"	Not Offered	Upright "L"
Material Thickness-in (mm)	0.24 (6)	N/A	0.24 (6)
Combined Section-in^3 (cm^3)	14.20 (232.7)	N/A	14.1 (231.1)
Rated Combined RBM	1,136,000	N/A	1,128,000

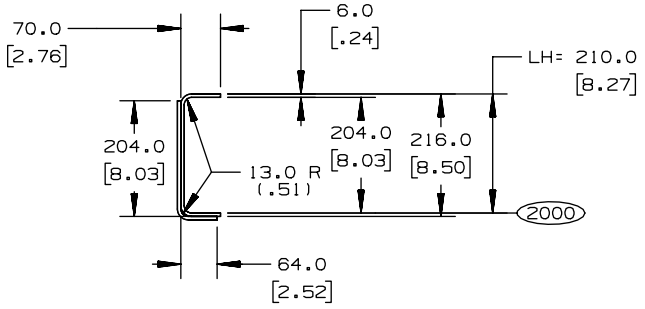
** SECTION MODULUS BASED ON Square C-Channel. Actual parts contain radius.

110 Heat-Treated Versus 80K HSLA

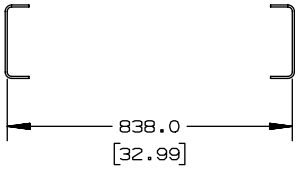
GM Truck is the only major OEM to offer 80K HSLA material on all C-Series. This offering is based on fatigue testing which shows equivalency to heat-treated steel. Frames fail in fatigue, not yield, and therefore the materials are equivalent with respect to service life.

C4/C5C,E,U,V042 Frame Lengths with Reinforcements



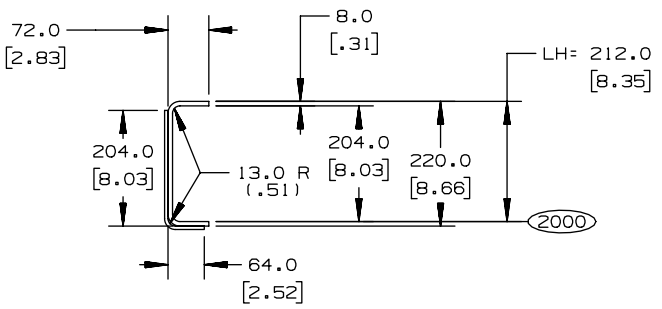


SECTION A-A
REINFORCEMENT RPO F08
WHEELBASE EG9,EC9,FQT
C4C042/C5C042
ALL REINFORCEMENT THICKNESSES ARE 6.0MM



INSIDE SHEETMETAL
FRAME REAR VIEW

[ ] = INCHES



SECTION A-A
REINFORCEMENT RPO F08
WHEELBASE EK4,EK8,EK5,FNW,
FPP,ED7,EQ4,FRP,EH8,EP5,EU5,EE4,EK6
C4C0/5C042,C4E0/5E042,C5U042,C5V042

LH=REF AXLE CHART

TD005882a

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5C,E,U,V042 Frame Lengths with Reinforcements Chart

WHEELBASE	C4C042	C4E042	C4U042	C4V042	C5C042	C5E042	C5U042	C5V042	C4C044	C4E044	C5C044	C5E044	FRAME FL	FRAME THICKNESS	FRAME REINF
EC9 128	*				*								5155.0 (202.95)	6.0 (.24)	F08
FQT 140					*								6300.0 (248.03)	6.0 (.24)	F08
EG9 152	*			*	*			*		*			6300.0 (248.03)	6.0 (.24)	F08
EC1 165.5				*			*						6875.0 (270.67)	6.0 (.24)	———
EC1 165.5			*			*							7210.0 (283.86)	6.0 (.24)	———
FPP 169		*			*				*		*		6735.0 (265.16)	8.0 (.31)	F08
EH8 170					*								6960.0 (274.02)	8.0 (.31)	F08
FNW 176	*				*			*		*			7115.0 (280.12)	8.0 (.31)	F08
EC2 183.5				*			*						7665.0 (301.77)	6.0 (.24)	F08
EC2 183.5			*			*							8085.0 (318.31)	6.0 (.24)	F08
EK8 188	*				*			*		*			7785.0 (306.50)	8.0 (.31)	F08
EK4 194		*			*				*		*		7370.0 (290.16)	8.0 (.31)	F08
EK4 194					*					*			7935.0‡ (312.40)	8.0 (.31)	F08
EC3 195.5				*			*						7970.0 (313.78)	6.0 (.24)	F08
EC3 195.5						*							8785.0 (345.87)	6.0 (.24)	F08
EK5 206					*								8240.0 (324.41)	8.0 (.31)	F08
EL5 212					*								8395.0 (330.51)	8.0 (.31)	F08
EC4 213.5						*							9245.0 (363.98)	6.0 (.24)	F08
ED7 217		*			*				*		*		8520.0 (335.43)	8.0 (.31)	F08

WHEELBASE	C4C042	C4E042	C4U042	C4V042	C5C042	C5E042	C5U042	C5V042	C4C044	C4E044	C5C044	C5E044	FRAME FL	FRAME THICKNESS	FRAME REINF
EP5 221.5							*						8634.0 (339.92)	8.0 (.31)	F08
EP5 221.5						*							9750.0 (383.86)	8.0 (.31)	F08
EK6 224				*									8697.0 (342.40)	8.0 (.31)	F08
EQ4 229		*			*				*		*		8825.0 (347.44)	8.0 (.31)	F08
EQ8 233							*						8925.0 (351.38)	6.0 (.24)	———
EQ8 233						*							10155.0 (399.80)	6.0 (.24)	———
FRP 235					*						*		8980.0 (353.54)	8.0 (.31)	F08
FXA 239						*							9820.0 (386.61)	8.0 (.31)	———
EE4 254				*									9680.0 (381.10)	8.0 (.31)	F08

[ ] = INCHES

06/16/04 REV

TD005882b

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5C,E,U,V042 Frame Lengths with Reinforcements Chart

WHEELBASE	C4C042	C4E042	C4U042	C4V042	C5C042	C5E042	C5U042	C5V042	FRAME FL	FRAME THICKNESS	FRAME REINF	RPO
EC1 165.5				*				*	7330.0 (288.58)	6.0 (.24)	———	ANC/B3D
EC2 183.5				*				*	7785.0 (306.49)	6.0 (.24)	———	ANC/B3D
EC3 195.5								*	8090.0 (318.50)	6.0 (.24)	———	ANC/B3D
EC4 213.5								*	8550.0 (336.61)	6.0 (.24)	———	ANC
EC4 213.5								*	9205.0 (362.40)	6.0 (.24)	———	ANC
EQE 220								*	9165.0 (360.83)	8.0 (.31)	F08	ANC/B3D
EQ8 233								*	9495.0 (373.82)	8.0 (.31)	F08	ANC/B3D
EQ1 246								*	9825.0 (386.81)	8.0 (.31)	F08	ANC/B3D
ET7 259								*	10155.0 (399.80)	8.0 (.31)	F08	ANC/B3D

* 40 GALLON FUEL TANK

* 60 GALLON FUEL TANK

ANC= SHUTTLE BUS

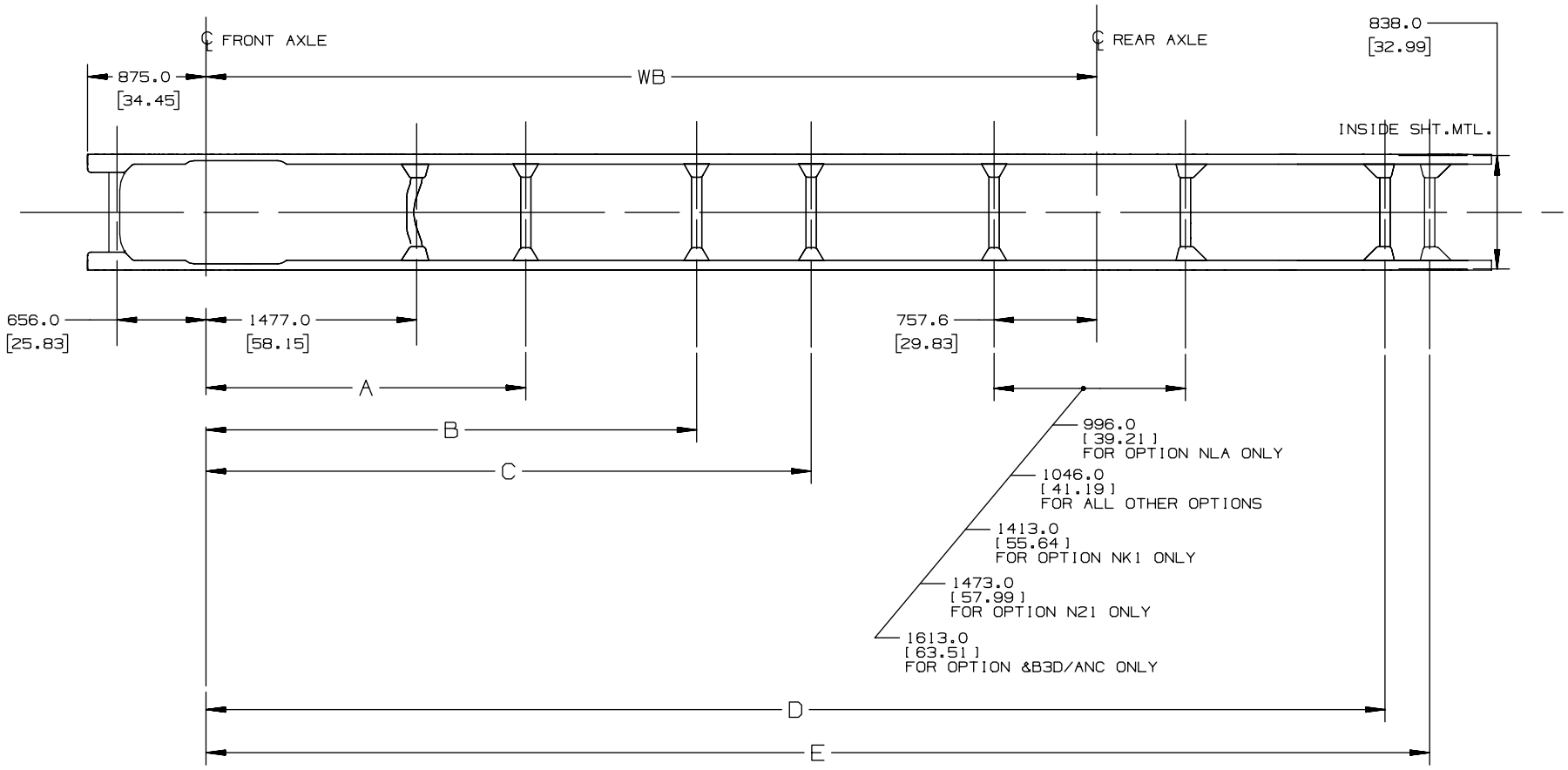
B3D= SCHOOL BUS

[ ]= INCHES

06/16/04 REV

TD005882c

C4/C5C,E,U,V042 Frame and Crossmember Location



ANC=SALES PACKAGE SHUTTLE BUS
B3D=EQUIPMENT SCHOOL BUS
NK1=FUEL TANK 90L(25 GAL),PLASTIC

GMT560,FRAME & CROSSMEMBER INSTALLATION

EM/17MR04

[ ] = INCHES

TD005864a

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5C,E,U,V042 Frame and Crossmember Chart

C4/5C042-C4/5E042-C4/5U042-C4/5V042 SINGLE AXLE CROSSMEMBER ARRANGEMENT CHART

MODEL	W/B	DIM A	DIM B	DIM C	DIM D(N23)	DIM D(NG6)	DIM D(NK1)	DIM D(NN4)	DIM D(NJ9)	DIM D(NLA)	DIM E(NG6)	DIM E(N23)	DIM E(NN4)	DIM E(NJ9)
C4C/C5C042	EC9 3251.2 [128.00]	———	———	———	———	4027.0 [158.53]	———	———	———	———	———	———	———	———
C5C042	FQT 3556.0 [140.00]	1827.0 [71.93]	———	———	4868.0 [191.65]	4331.0 [170.51]	———	———	———	4668.0 [183.78]	4925.0 [193.90]	———	———	———
C4C/C5C042	EG9 3860.8 [152.00]	1827.0 [71.93]	———	———	5173.0 [203.66]	4636.0 [182.52]	———	———	———	4973.0 [195.79]	———	———	———	———
C4C/C5C042(FSQ)	EG9 3860.8 [152.00]	1827.0 [71.93]	———	———	5173.0 [203.66]	———	———	———	———	———	———	5740.0 [225.98]	———	———
C4U/C5U042	EC1 4203.7 [165.50]	2095.0 [82.48]	———	———	———	———	———	5966.0 [234.88]	———	———	———	———	———	———
C4V/C5V042	EC1 4203.7 [165.50]	2095.0 [82.48]	———	———	5516.0 [217.16]	———	———	———	———	———	———	———	———	———
C4E/C5E042	FPP 4292.6 [169.00]	2184.0 [85.98]	2592.5 [102.07]	———	5605.0 [220.67]	5068.0 [199.53]	5477.0 [215.63]	———	———	5405.0 [212.80]	5477.0 [215.63]	———	———	———
C5C042	EH8 4318.0 [170.00]	2362.0 [92.99]	———	———	5630.0 [221.65]	———	———	———	———	5430.0 [213.78]	———	———	———	———
C4C/C5C042	FNW 4470.4 [176.00]	2362.0 [92.99]	———	———	5783.0 [227.68]	5246.0 [206.54]	5663.0 [222.95]	———	———	5583.0 [219.80]	5663.0 [222.95]	———	———	———
C4U/C5U042	EC2 4660.9 [183.50]	1827.0 [71.93]	2552.0 [100.47]	———	———	———	———	6423.0 [252.87]	6873.0 [270.59]	———	———	———	———	———
C4V/C5V042	EC2 4660.9 [183.50]	1827.0 [71.93]	2552.0 [100.47]	———	5973.0 [235.18]	———	———	6423.0 [252.87]	———	———	———	———	———	———
C4C/C5C042	EK8 4775.2 [188.00]	1827.0 [71.93]	2667.0 [105.00]	———	6088.0 [239.69]	5551.0 [218.54]	6418.0 [252.68]	6538.0 [257.40]	———	5888.0 [231.81]	6418.0 [252.68]	———	———	———
C5C042	EK4 4927.6 [194.00]	1827.0 [71.93]	2819.0 [110.98]	———	6240.0 [245.67]	5703.0 [224.53]	6570.0 [258.66]	6690.0 [263.39]	———	6040.0 [237.80]	6570.0 [258.66]	———	———	———
C4E/C5E042	EK4 4927.6 [194.00]	1827.0 [71.93]	2520.5 [99.23]	2894.0 [113.93]	6240.0 [245.67]	5703.0 [224.53]	6112.0 [240.63]	———	———	6240.0 [237.80]	6112.0 [240.63]	———	———	———
C5U042	EC3 4965.7 [195.50]	1827.0 [71.93]	2857.0 [112.48]	———	———	———	———	6728.0 [284.88]	7178.0 [282.60]	———	———	———	7441.0 [292.85]	———
C5V042	EC3 4965.7 [195.50]	1827.0 [71.93]	2857.0 [112.48]	———	6278.0 [247.18]	———	———	6728.0 [264.88]	———	———	———	———	———	———
C5C042	EK5 5232.4 [206.00]	1827.0 [71.93]	3124.0 [122.99]	———	6545.0 [257.68]	6008.0 [236.54]	6875.0 [270.67]	6995.0 [275.39]	———	6345.0 [249.80]	6875.0 [270.67]	———	———	———
C5C/C5V042	EL5 5384.8 [212.00]	2362.0 [92.99]	3276.0 [128.98]	———	———	6160.0 [242.52]	———	———	———	———	7027.0 [276.65]	———	———	———
C5U042	EC4 5422.9 [213.50]	1827.0 [71.93]	3314.0 [130.47]	———	———	———	———	7185.0 [282.87]	7635.0 [300.59]	———	———	———	7898.0 [310.94]	———
C4E/C5E042	ED7 5511.8 [217.00]	2362.0 [92.99]	2520.5 [99.23]	3403.0 [133.98]	6824.0 [268.66]	6287.0 [247.52]	7154.0 [281.65]	7274.0 [286.38]	———	6624.0 [260.79]	7154.0 [281.65]	———	———	———
C5V042	EP5 5626.1 [221.5]	2362.0 [92.99]	3518.0 [138.50]	———	6939.0 [273.19]	———	———	7389.0 [290.91]	———	———	———	———	———	———
C5U042	EP5 5626.1 [221.5]	2362.0 [92.99]	3518.0 [138.50]	———	———	———	———	7389.0 [290.91]	7839.0 [308.62]	———	———	———	8375.0 [329.72]	8375.0 [329.72]
C5C042	EK6 5689.6 [224.00]	2362.0 [92.99]	3581.0 [140.98]	———	7002.0 [275.67]	6465.0 [254.53]	7332.0 [288.66]	7452.0 [293.39]	———	6802.0 [267.80]	7332.0 [288.66]	———	———	———
C4E/C5E042	EQ4 5816.6 [229.00]	2362.0 [92.99]	2520.5 [99.23]	3708.0 [145.98]	7129.0 [280.67]	6592.0 [259.53]	7459.0 [293.66]	7579.0 [298.38]	———	6929.0 [272.80]	7459.0 [293.66]	———	———	———
C5E042	FRP 5969.0 [235.00]	2362.0 [92.99]	2520.5 [99.23]	3860.0 [151.97]	7281.0 [288.65]	6744.0 [265.51]	7611.0 [299.64]	7731.0 [304.37]	———	7081.0 [278.78]	7611.0 [299.64]	———	———	———

GMT560,FRAME & CROSSMEMBER INSTALLATION EM/17MR04 [ ]= INCHES

TD005864b

C4/C5C,E,U,V042 Frame and Crossmember Chart

C4/5C042-C4/5E042-C4/5U042-C4/5V042 SINGLE AXLE CROSSMEMBER ARRANGEMENT CHART

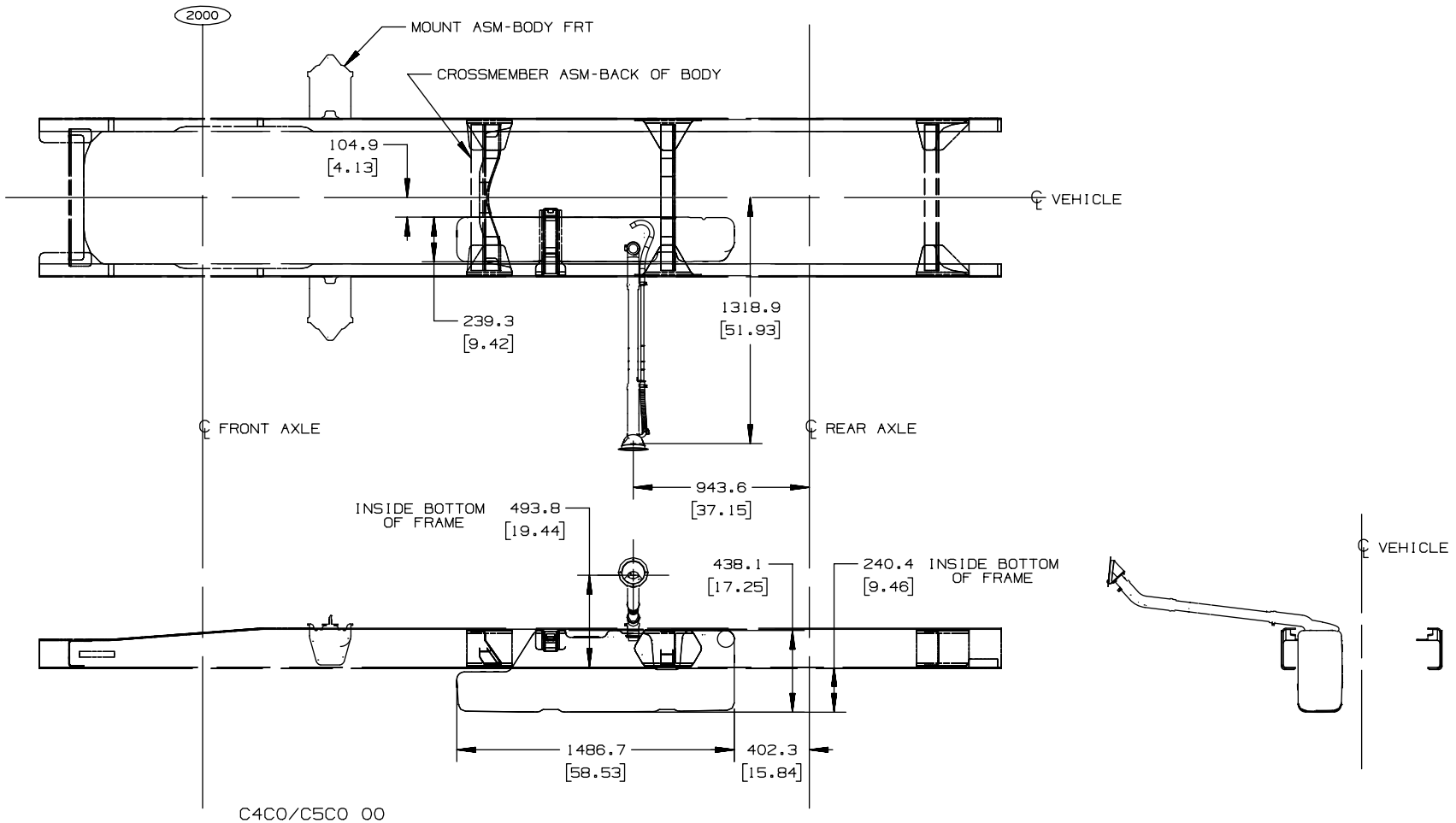
MODEL	W/B	DIM A	DIM B	DIM C	DIM D(N23)	DIM D(NG6)	DIM D(N21)	DIM D(NN4)	DIM D(NJ9)	DIM D(NLA)	DIM E(N23)	DIM E(NG6)	DIM E(NJ9)
C5U042	EQ8 5918.2 [233.00]	2386.0 [93.94]	3086.0 [121.50]	3810.0 [150.00]	———	———	———	———	8131.0 [320.12]	———	———	———	8623.0 [339.49]
C5V042	EQ8 5918.2 [233.00]	2286.0 [90.00]	3086.0 [121.50]	———	7231.0 [284.69]	———	———	———	———	———	———	———	———
C5V042	EQ8 5918.2 [233.00]	2386.0 [93.94]	3086.0 [121.50]	3810.0 [150.00]	———	———	———	7681.0 [302.40]	———	———	———	———	———
C5C042	EE4 6451.6 [254.00]	2362.0 [92.99]	3352.5 [131.99]	4343.0 [170.98]	7764.0 [305.67]	———	8479.5 [333.84]	———	———	7564.0 [297.80]	8340.0 [328.35]	———	———
C5V042(&B3D/ANC)	EC1 4203.7 [165.50]	2095.0 [82.48]	———	———	6083.0 [239.48]	———	———	———	———	———	———	———	———
C5V042(&B3D/ANC)	EC2 4660.9 [183.50]	1827.0 [71.93]	2552.0 [100.50]	———	6540.0 [257.50]	———	———	———	———	———	———	———	———
C5V042(&B3D/ANC)	EC3 4965.7 [195.5]	1827.0 [71.93]	2857.0 [112.50]	———	6845.0 [269.50]	———	———	———	———	———	———	———	———
C5V042(&ANC)	EC4 5422.9 [213.5]	1827.0 [71.93]	3314.0 [130.47]	———	7302.0 [287.50]	———	———	7752.0 [305.49]	———	———	———	———	———
C5V042(&B3D/ANC)	EQE 5588.0 [220.00]	2386.0 [93.94]	3479.0 [136.97]	———	7467.0 [293.98]	———	———	7917.0 [311.69]	———	———	———	———	———
C5V042(&B3D/ANC)	EQ8 5918.2 [233.00]	2386.0 [93.94]	3086.0 [121.50]	3810.0 [150.00]	7798.0 [307.01]	———	———	8248.0 [324.72]	———	———	———	———	———
C5U042	FXA 6070.6 [239.00]	2362.0 [93.00]	3162.0 [124.50]	3962.0 [156.00]	———	———	———	———	8283.0 [326.10]	———	———	———	———
C5V042(&B3D/ANC)	EQ1 6248.4 [246.00]	2386.0 [93.94]	3201.0 [126.02]	4140.0 [162.99]	8128.0 [320.00]	———	———	8578.0 [337.71]	———	———	———	———	———
C5V042(&B3D/ANC)	ET7 6578.6 [259.00]	2386.0 [93.94]	3531.0 [139.01]	4470.0 [175.98]	8458.0 [333.99]	———	———	8908.0 [350.71]	———	———	———	———	———

ANC=SALES PACKAGE SHUTTLE BUS
B3D=EQUIPMENT SCHOOL BUS
N23=FUEL TANK 151L(40 GAL)
NN4=FUEL TANK 227L(60 GAL)
NG6=FUEL TANK COMBINATION 25 GAL&15 GAL
NJ9=FUEL TANK 304L(80 GAL) LH or RH FILL
N21=FUEL TANK 227L(60 GAL) LOW PROFILE,RH
NK1=FUEL TANK 90L(25 GAL),PLASTIC
NLA=FUEL TANK 121L(32 GAL)
FSQ=EXTENSION FRAME ,CE=4521.20[178"],RR

GMT560,FRAME & CROSSMEMBER INSTALLATION EM/17MR04 [ ]= INCHES

TD005864c

C4/C5C,E,U,V042 25 Gallon Fuel Tank Option NK1

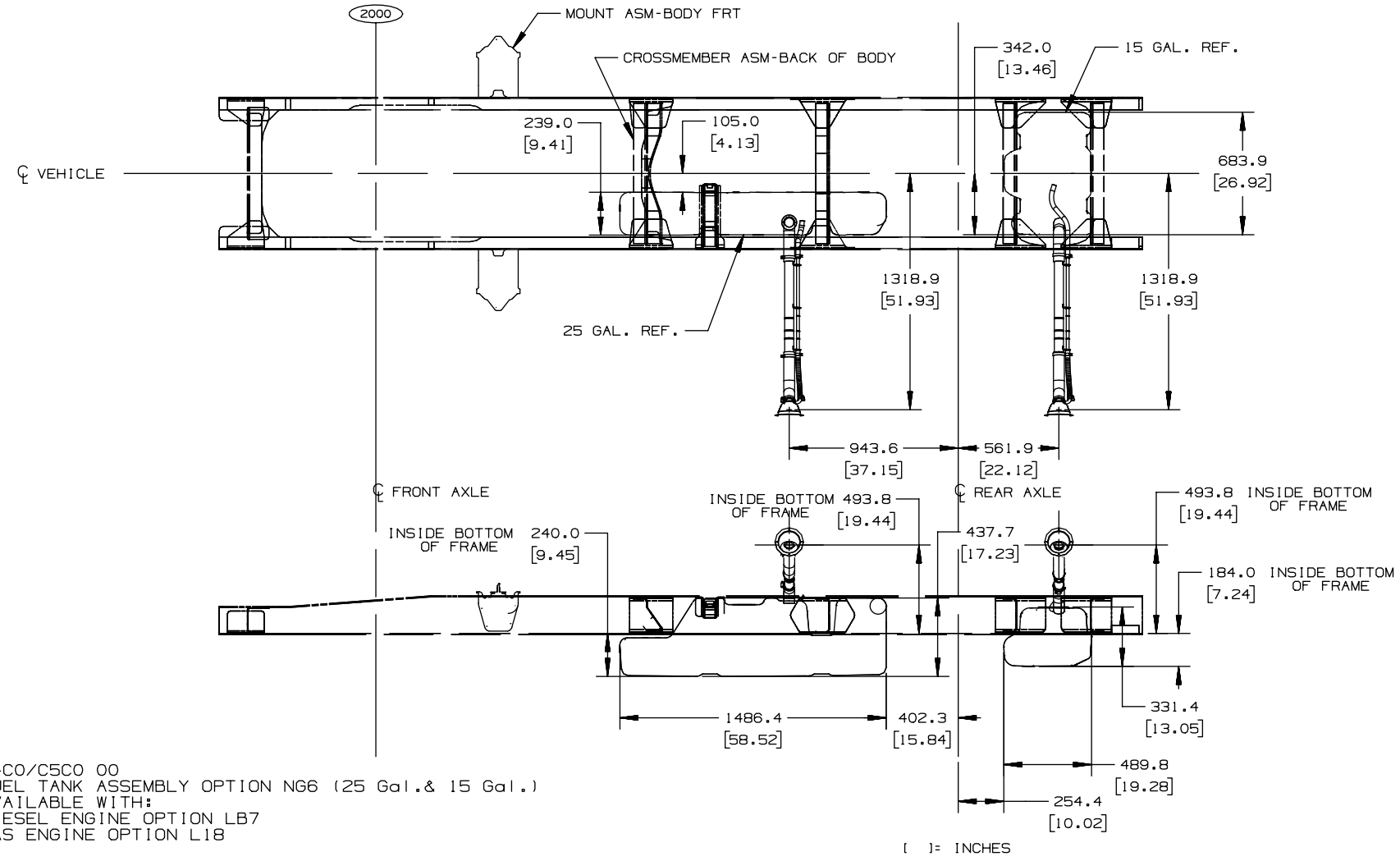


C4CO/C5CO 00
FUEL TANK ASSEMBLY OPTION NK1 (25 Gallon)
AVAILABLE WITH:
DIESEL ENGINE OPTION LB7
GAS ENGINE OPTION L18

[ ]= INCHES

TD005824

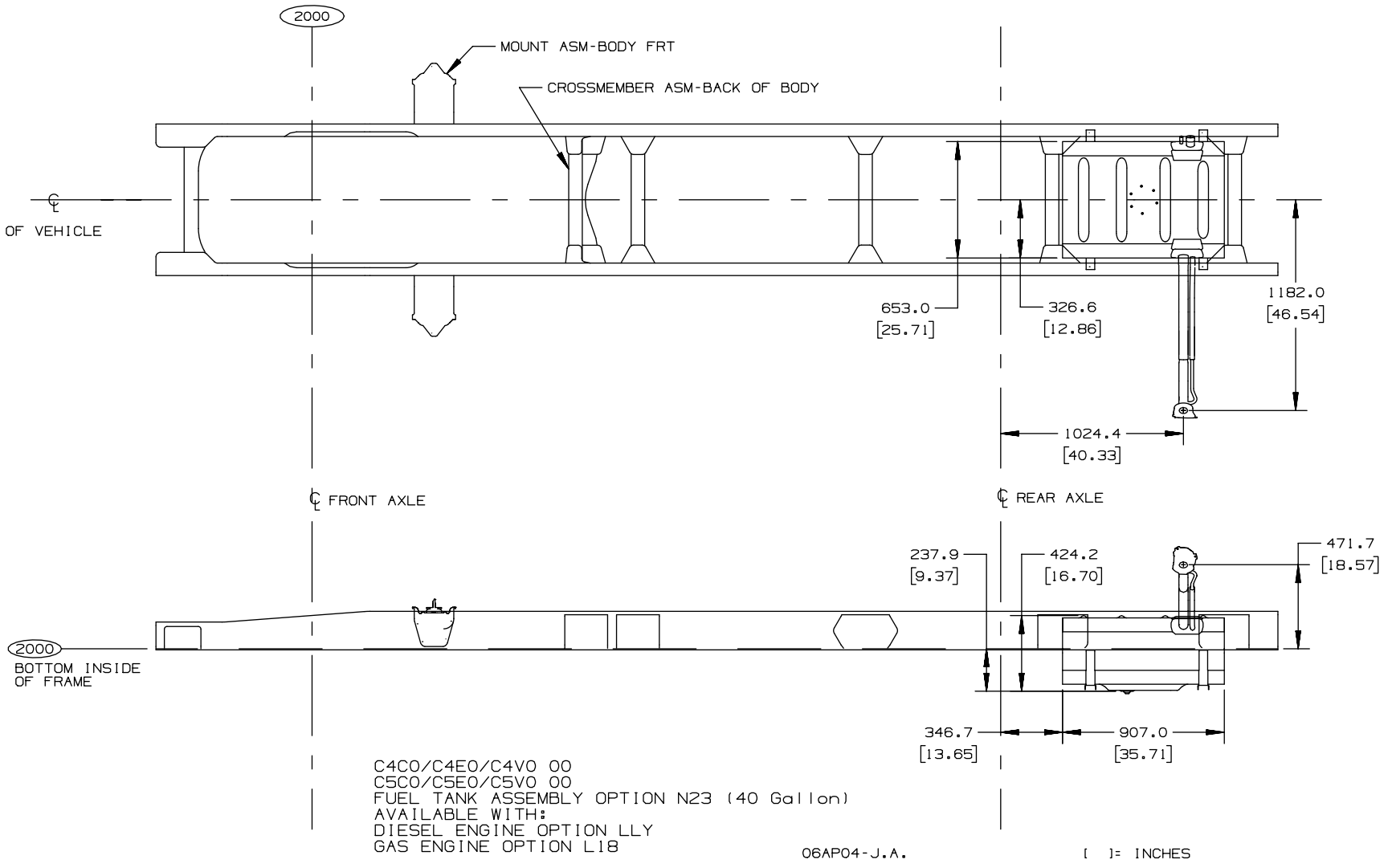
C4/C5C,E042 25 & 15 Gallon Fuel Tank Option NG6



C4CO/C5CO 00
FUEL TANK ASSEMBLY OPTION NG6 (25 Gal.& 15 Gal.)
AVAILABLE WITH:
DIESEL ENGINE OPTION LB7
GAS ENGINE OPTION L18

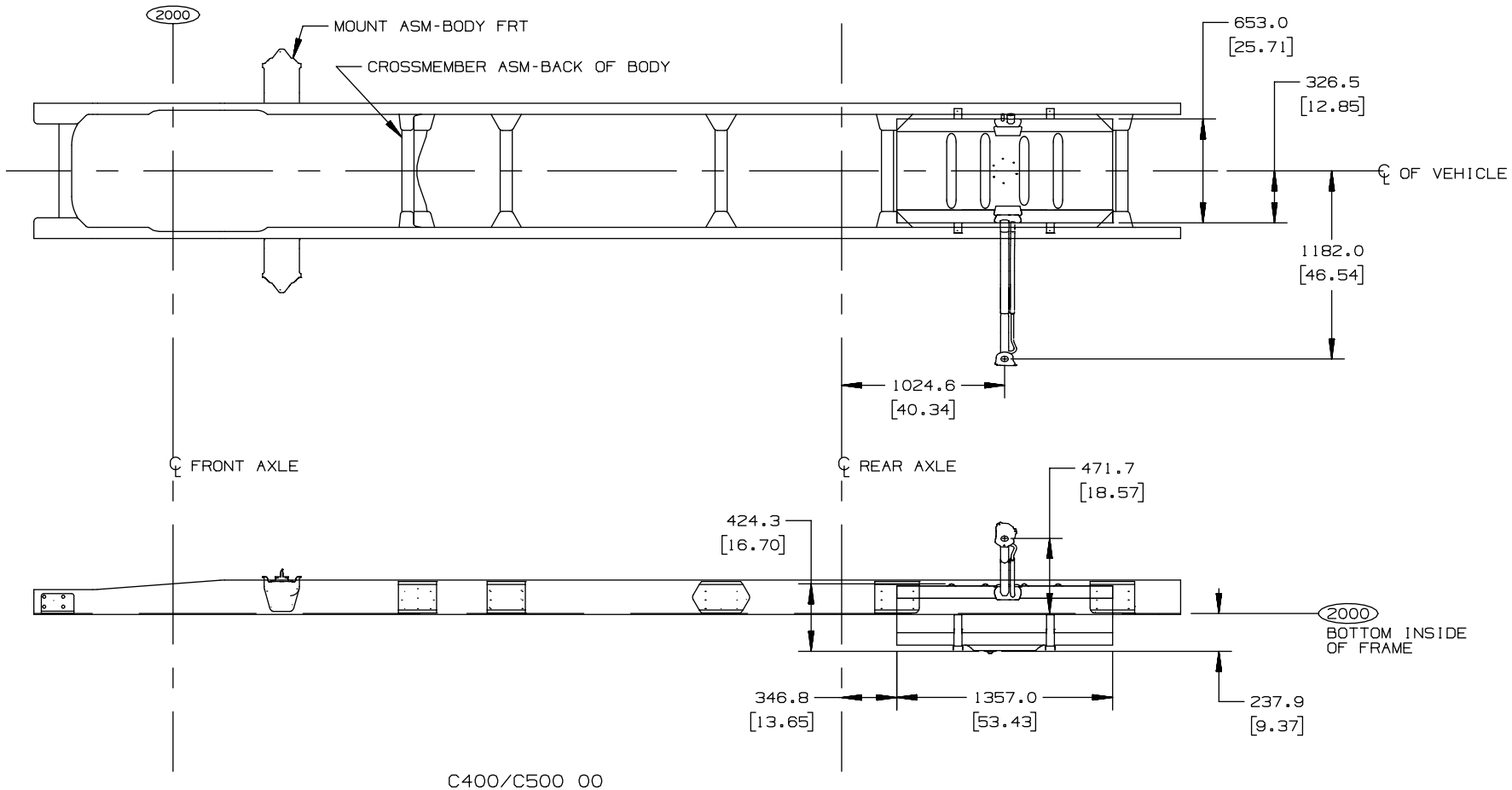
TD005825

C4/C5C,E,V042 40 Gallon Fuel Tank Option N23



TD005829

C4/C5C,E,U,V042 60 Gallon Fuel Tank Option NN4



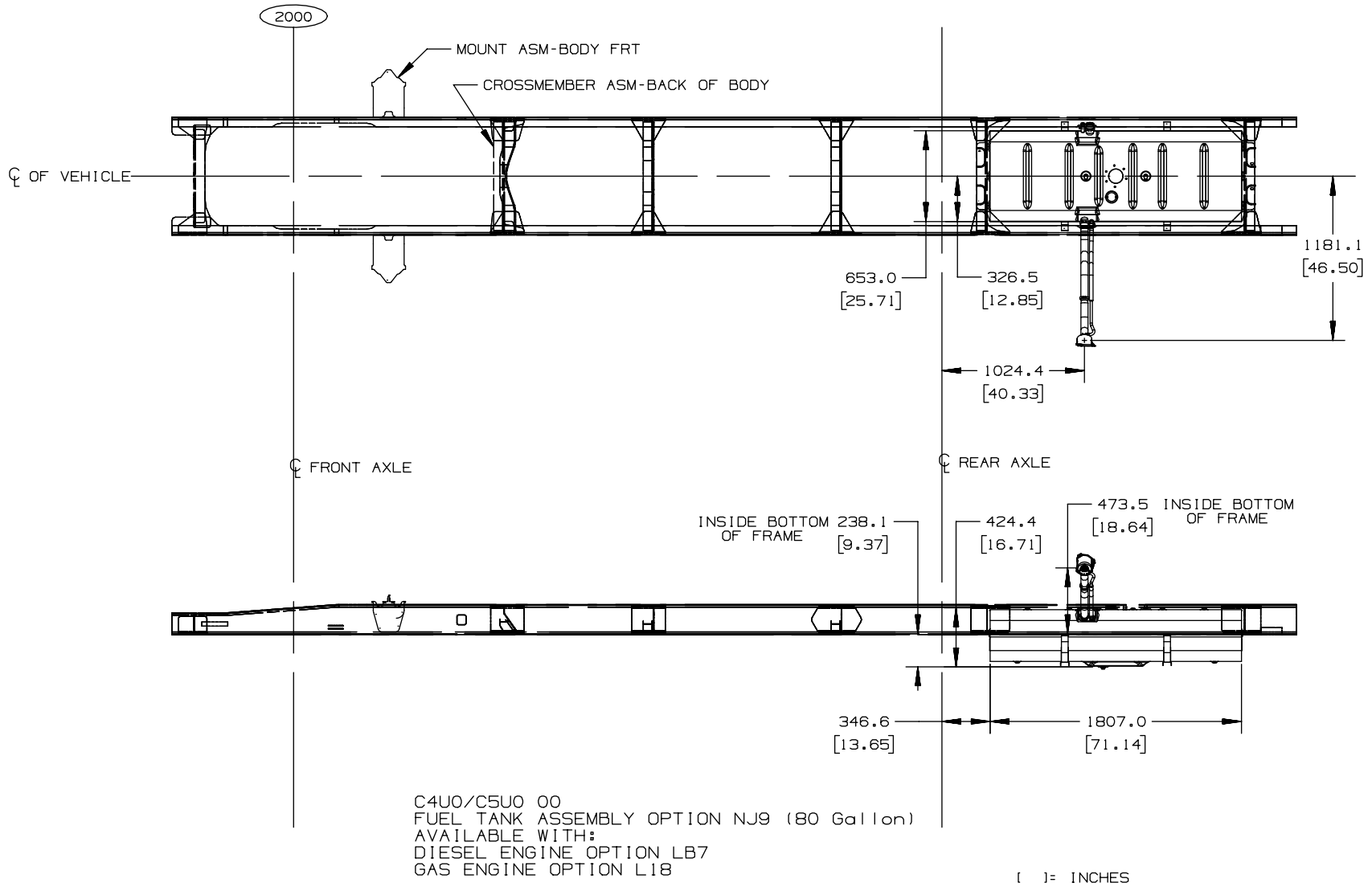
C400/C500 00
FUEL TANK ASSEMBLY OPTION NN4 (60 Gallon)
AVAILABLE WITH:
DIESEL ENGINE OPTION LLY
GAS ENGINE OPTION L18

06AP01-J.A.

[ ]= INCHES

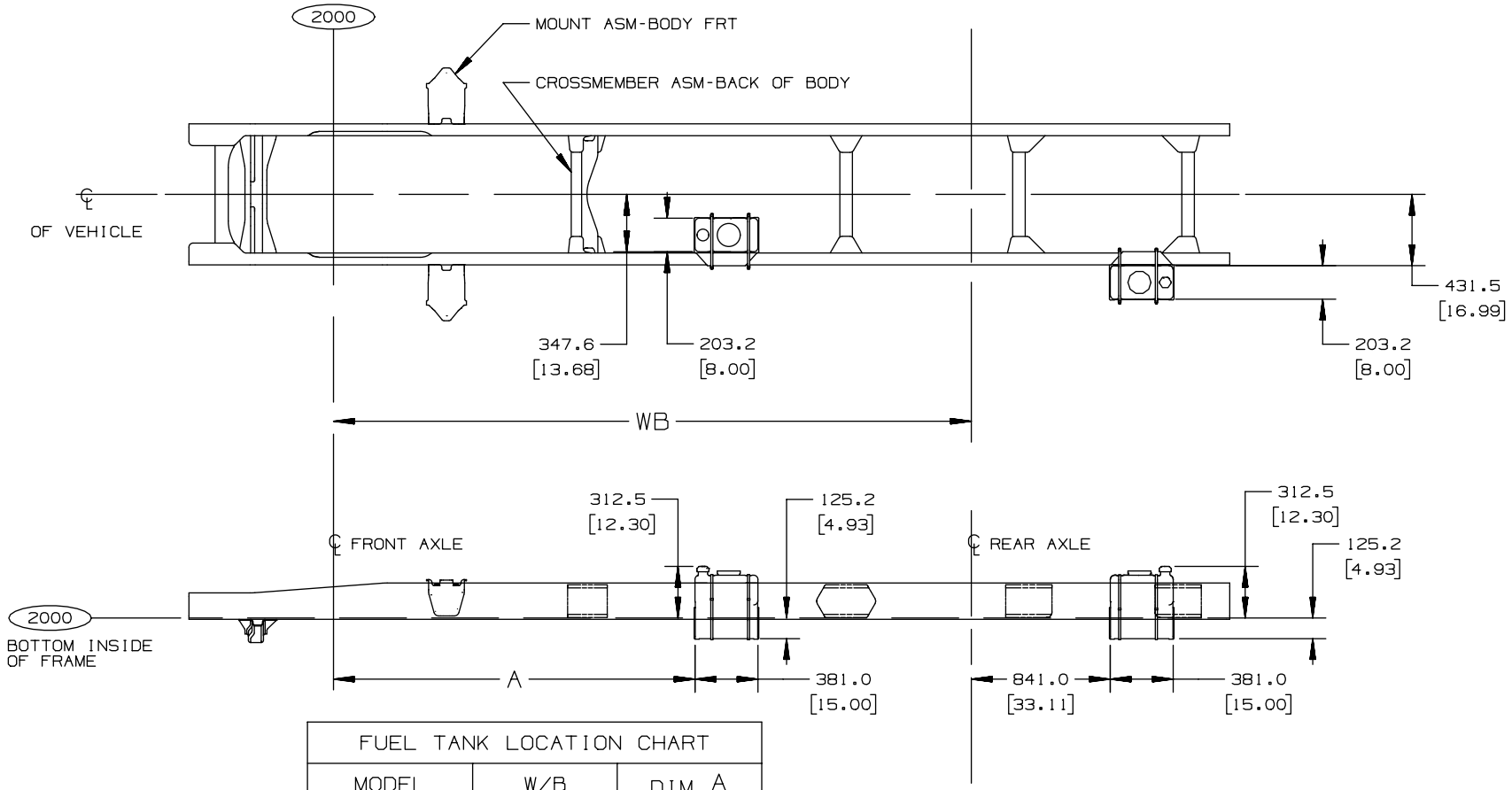
TD005826

C4/C5U042 80 Gallon Fuel Tank Option NJ9



TD005827

C4/C5C,V042 5 Gallon Temporary Fuel Tank Option NJ2



FUEL TANK LOCATION CHART		
MODEL	W/B	DIM A
C 4/5 C 42	EC9 3251.2 [128.00]	1651.0 [65.00]
C 4/5 C 42&44	EG9 3860.8 [152.00]	2189.8 [86.21]

ALL OTHER W/B, TANK IS RELATIVE TO REAR AXLE AS SHOWN

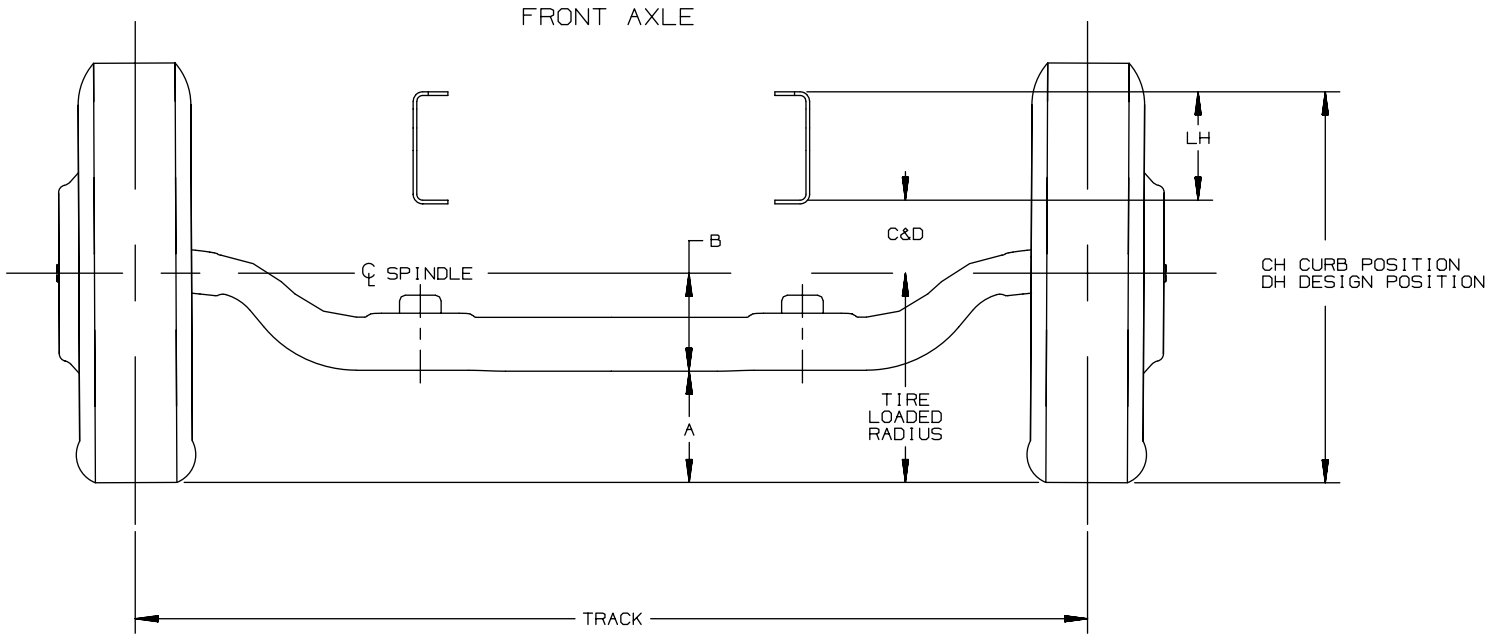
C4CO/C4EO/C4VO 00
C5CO/C5EO/C5VO 00
FUEL TANK ASSEMBLY OPTION NJ2
(5 Gallon TEMPORARY TANK)
AVAILABLE WITH: GAS ENGINE OPTION L18

EM/16MR04

[ ]= INCHES

TD005828

C4/C5C,E,U,V042 Front Axle



LEDGEND:

A = TIRE LOADED RADUIS - B

B = CENTERLINE OF AXLE TO BOTTOM OF BEAM

C = CENTERLINE OF AXLE TO BOTTOM INSIDE OF RAIL AT CURB POSITION

D = CENTERLINE OF AXLE TO BOTTOM INSIDE OF RAIL AT DESIGN LOAD

CH = C + TIRE LOADED RADIUS + LH

DH = D + TIRE LOADED RADIUS + LH

LH = INSIDE BOTTOM OF FRAME TO TOP OF FRAME
SEE FRAME DRAWING TD005882

TRACK = WHEEL OFFSET AT SPINDLE
TRACK AT GROUND WILL VARY WITH CAMBER ANGLE AND TIRE/WHEEL COMBINATION

FOR: GMT 560, C4/5C,E,U,V042, C6/7/8C,E,V042, C8C,E,V064 2004

[ ]= INCHES

TD005869a

C4/C5C,E,U,V042 Front Axle Track Width Chart

FRONT AXLE TRACK WIDTH						
				AXLE & BRAKE RPO		
				FR5	FM7	FM8
WHEEL TYPE	WHEEL RPO	WHEEL SIZE (IN INCHES)	WHEEL OFFSET	JE3 (HYD)	JE3	JE3
DISC	Q91	19.50 X 6.00	117.34 [4.62]	2052.3 [80.80]	2062.5 [81.20]	2146.9 [84.52]
DISC	Q82	19.50 X 6.75	142.2 [5.60]	2025.1 [79.73]	2033.1 [80.04]	2124.2 [83.63]
DISC	RPM	19.50 X 6.75	141.0 [5.55]	2047.3 [80.60]	2055.4 [80.92]	2146.4 [84.50]

FOR: GMT 560, C4/5C,E,U,V042, 2004

[ ]= INCHES

04JN04 NI

TD005869b

C4/C5C,E,U,V042 Front Axle / Suspension Chart

FRONT AXLE SUPENSION DIMENSIONS

SUSPENSION RPO	AXLE RPO	C4C042	C4E042	C4U042	C4V042	C5C042	C5E042	C5U042	C5V042	-B-	-C- BASE	-C- W/F59*	-D- BASE	-D- W/F59*
FK6 7,000 LB 3,175 KG TAPERED LEAF	FR5 6,250 LB 2,835 KG	✳			✳					177.5 [6.99]	—	195.5 [7.70]	—	150.2 [5.91]
	FM7 7,000 LB 3,175 KG	✳	✳	✳	✳	✳	✳	✳	✳	210.2 [8.28]	—	182.1 [7.17]	—	120.1 [4.73]
FSN 8,000 LB 3,629 KG TAPERED LEAF	FM8 8,000 LB 3,639 KG					✳	✳	✳	✳	210.2 [8.28]	—	207.1 [8.15]	—	136.6 [5.38]

*F59 = STABLIZER SHAFT FRONT

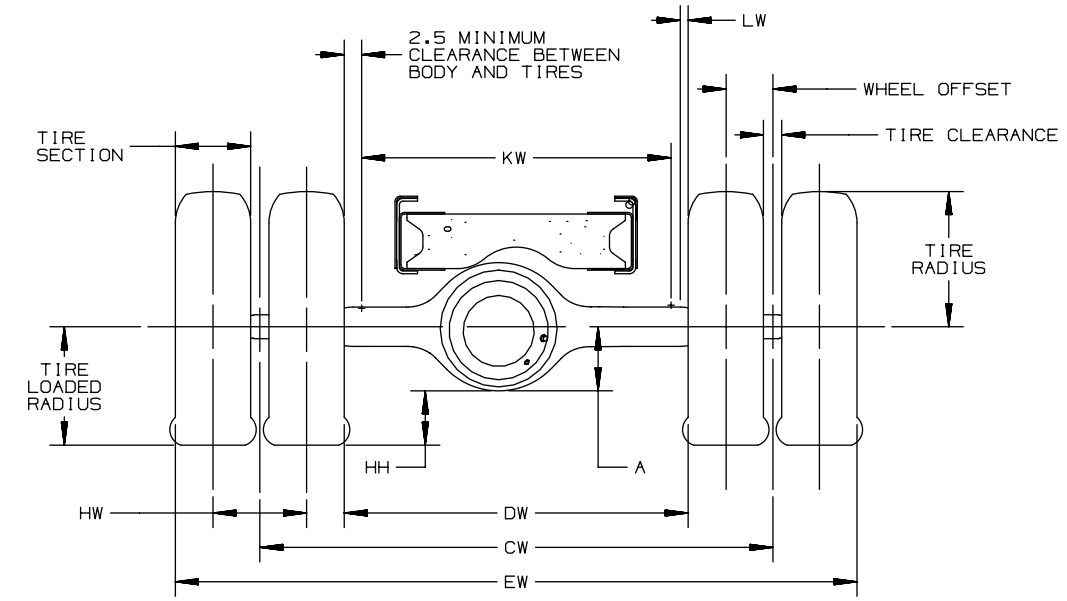
FOR: GMT 560, C4/5C,E,U,V042, 2004

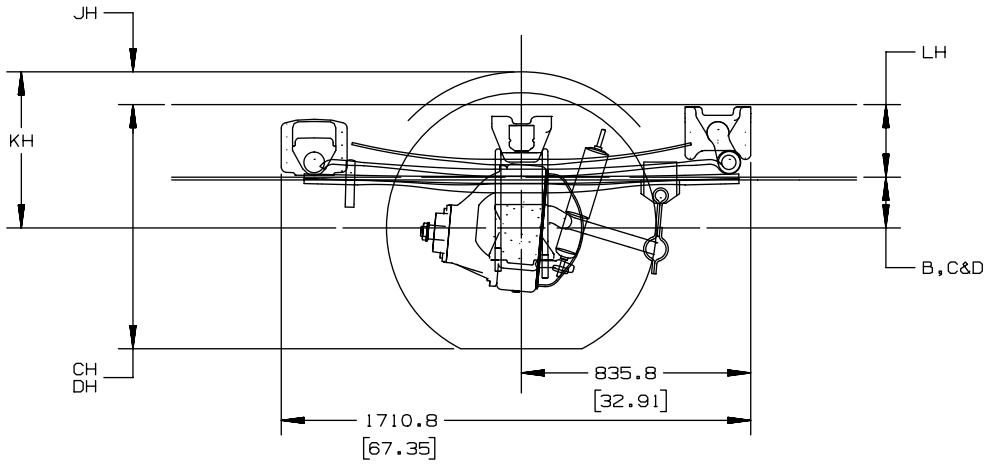
[ ]= INCHES

04JN04 NI

TD005869c

C4/C5C,E,U,V042 Rear Axle





FOR: GMT560 C SERIES WITH SINGLE REAR AXLE

[ ] = INCHES

TD005870a

C4/C5C,E,U,V042 Rear Axle Chart Formula

DEFINITIONS:

A - CENTERLINE OF AXLE TO BOTTOM OF AXLE BOWL

B - CENTERLINE OF AXLE TO BOTTOM INSIDE RAIL AT INFINATE BUMP

C - CENTERLINE OF AXLE TO BOTTOM INSIDE RAIL AT CURB POSITION

D - CENTERLINE OF AXLE TO BOTTOM INSIDE RAIL AT DESIGN LOAD

CH - REAR FRAME HEIGHT
DISTANCE BETWEEN THE TOP OUTSIDE RAIL AND THE GROUND-LINE THROUGH THE VERTICAL CENTERLINE OF THE REAR AXLE AT CURB POSITION

DH - REAR FRAME HEIGHT DISTANCE BETWEEN THE TOP OUTSIDE RAIL AND THE GROUND-LINE THROUGH THE VERTICAL CENTERLINE OF THE REAR AXLE AT DESIGN POSITION

HH - REAR AXLE CLEARANCE
MINIMUM CLEARANCE BETWEEN THE REAR AXLE AND THE GROUND-LINE

JH - REAR TIRE CLEARANCE
MINIMUM CLEARANCE REQUIRED FOR TIRES AND CHAINS MEASURED FROM THE TOP OF THE FRAME AT THE VERTICAL CENTERLINE OF THE REAR AXLE

KH - CHAIN CLEARANCE

LH - DISTANCE FROM THE BOTTOM INSIDE RAIL TO THE TOP OF THE RAIL

CW - TRACK DUAL WHEEL VEHICLES
DISTANCE BETWEEN THE CENTERLINES OF THE DUAL WHEELS AS MEASURED AT THE GROUND-LINE

DW - MINIMUM DISTANCE BETWEEN THE INNER SURFACES OF THE REAR TIRES

EW - MAXIMUM REAR WIDTH
OVER-ALL WIDTH OF VEHICLE MEASURED AT THE OUTER MOST SURFACE OF THE REAR TIRES

HW - DUAL TIRE SPACING
DISTANCE BETWEEN THE CENTERLINES OF THE TIRES IN A SET OF DUAL TIRES

KW - REAR BODY WIDTH
MAXIMUM BODY WIDTH BETWEEN REAR TIRES

SEE TIRE CHART FOR VALUES: TIRE SELECTION, TIRE RADIUS
TIRE LOADED RADIUS AND TIRE CLEARANCE

FORMULAS FOR CALCULATING REAR WIDTH AND HEIGHT DIMENSIONS:

CH = TIRE LOADED RADIUS + C + LH
DH = TIRE LOADED RADIUS + D + LH
HH = TIRE LOADED RADIUS - A
JH = KH - B - LH
KH = TIRE RADIUS + 3.00 INCHES
CW = TRACK
DW = TRACK - 1 TIRE SECTION - HW
EW = TRACK + 1 TIRES SECTION + 2 WHEEL OFFSETS
KW = DW - 5.00 INCHES
LW = 1.00 INCHES MINIMUM CLEARANCE BETWEEN TIRES AND SPRINGS

NOTE: TRACK AND OVERALL WIDTH MAY VARY WITH OPTIONAL EQUIPMENT

TD005870b

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5C,E,U,V042 Rear Axle Suspension and Track Chart

REAR AXLE SUSPENSION DIMENSIONS - SINGLE AXLE

SUSPENSION RPO	REAR AXLE RPO	VEHICLE MODELS: C4C042	C4E042	C4V042	C4U042	C5C042	C5E042	C5V042	C5U042	-A-	-B- BASE	-B- W/G60	-C- BASE	-C- W/G60	-D- BASE	-D- W/G60
GR2 11,000 LB TAPERED LEAF	GL4 11,000 LB	*	*	*	*					176.44 [6.97]	80.2 [3.16]	N/A	223.2 [8.79]	N/A	158.3 [6.23]	N/A
GR3 11,000 LB MULTILEAF		*	*	*	*						88.1 [3.47]	N/A	223.8 [8.81]	N/A	153.5 [6.04]	N/A
GR4 13,500 LB MULTILEAF		*									86.0 [3.38]	N/A	182.5 [7.18]	N/A	140.5 [5.53]	N/A
GQ2 15,000 LB		*	*	*	*						103.7 [4.08]	N/A	261.3 [10.29]	N/A	198.7 [7.82]	N/A
GR4 13,500 LB MULTILEAF	GL8 13,500 LB	*	*	*	*	*	*	*		214.38 [8.44]	102.9 [4.05]	N/A	219.1 [8.63]	N/A	162.8 [6.41]	N/A
GXA 13,500 LB TAPERED LEAF		*	*	*	*	*	*	*	*		79.2 [3.11]	N/A	234.1 [9.22]	N/A	163.3 [6.43]	N/A
GQ2 15,000 LB		*	*			*	*	*	*		103.7 [4.08]	N/A	261.3 [10.29]	N/A	189.3 [7.45]	N/A
GG0 15,000 LB MULTILEAF	H08 15,000 LB DANA S150-S SINGLE SPEED					*	*	*	*	214.38 [8.44]	86.6 [3.40]	N/A	258.4 [10.17]	N/A	184.3 [7.25]	N/A
GQ0 15,000 LB TAPERED LEAF						*	*	*	*		71.6 [2.82]	N/A	276.8 [10.90]	N/A	168.0 [6.61]	N/A
GQ2 15,000 LB						*	*	*	*		103.7 [4.08]	N/A	261.3 [10.29]	N/A	182.7 [7.19]	N/A
GSK 12,000 LB TAPERED LEAF						*	*	*	*		102.4 [4.03]	N/A	221.4 [8.71]	N/A	132.2 [5.20]	N/A

FOR: GMT560 C SERIES WITH SINGLE REAR AXLE

6/28/04 JA

[ ] = INCHES

TD005870c

2004 MEDIUM DUTY C SERIES – FAMILY 2

C4/C5C,E,U,V042 Rear Axle Suspension and Track Chart

REAR AXLE SUSPENSION DIMENSIONS - SINGLE AXLE

SUSPENSION RPO	REAR AXLE RPO	VEHICLE MODELS: C4C042	C4E042	C4V042	C4U042	C5C042	C5E042	C5V042	C5U042	-A-	-B- BASE	-B- W/G60	-C- BASE	-C- W/G60	-D- BASE	-D- W/G60
GG9 17,000 LB TAPERED LEAF	HPK 19,000 LB EATON 19060S SINGLE SPEED					*	*	*	*	229.6 [9.04]	79.7 [3.14]	N/A	288.0 [11.34]	N/A	179.9 [7.08]	N/A
GN0 19,000 LB MULTILEAF						*	*	*	*		87.1 [3.42]	86.2 [3.39]	289.8 [11.40]	289.8 [11.40]	171.9 [6.76]	174.9 [6.88]
GN2 19,000 LB TAPERED LEAF						*	*	*	*		77.0 [3.03]	N/A	288.8 [11.37]	N/A	178.4 [7.02]	N/A
GN3 17,000 LB MULTILEAF						*	*	*	*		86.6 [3.40]	N/A	285.7 [11.24]	N/A	212.2 [8.35]	N/A

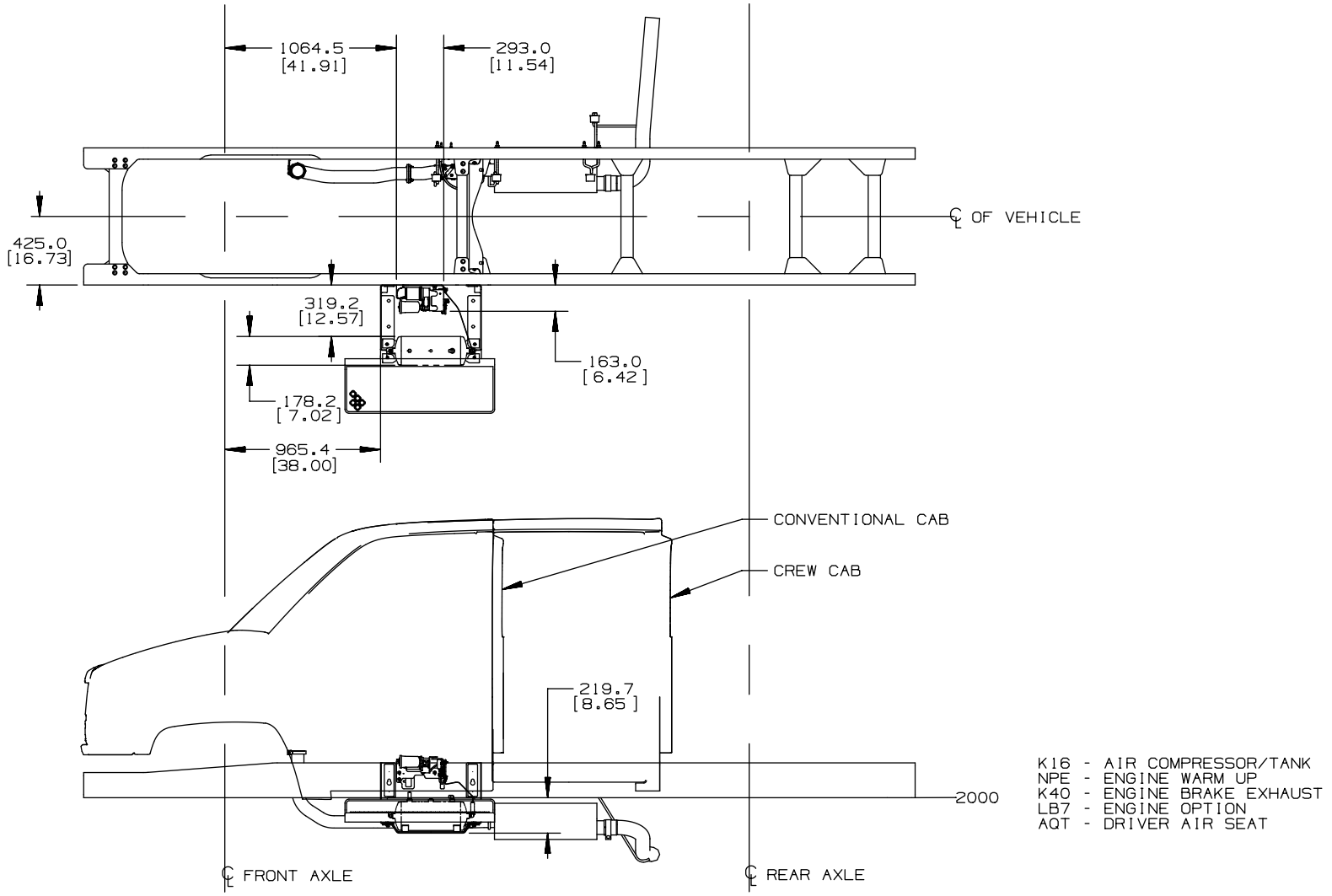
REAR AXLE TRACK DIMENSIONS - SINGLE AXLE

ENGINEERING MODEL	BRAKE	AXLE RPO	TRACK
C 4C/4E/4U/4V 042	JE3	GL4 11,000 LB	1854.2 [73.0]
C 5C/5E/5U/5V 042		GL8 13,500 LB	1854.2 [73.0]
		H08 15,000 LB DANA S150S SINGLE SPEED	1854.6 [73.02]
		HPK 19,000 LB EATON 19060S SINGLE SPEED	1905.5 [75.02]

FOR: GMT560 C ,FAM2,SERIES WITH SINGLE REAR AXLE 6/28/04 JA [ ] = INCHES

TD005870d

C4/C5C,E,U,V042 Air Tank and Compressor

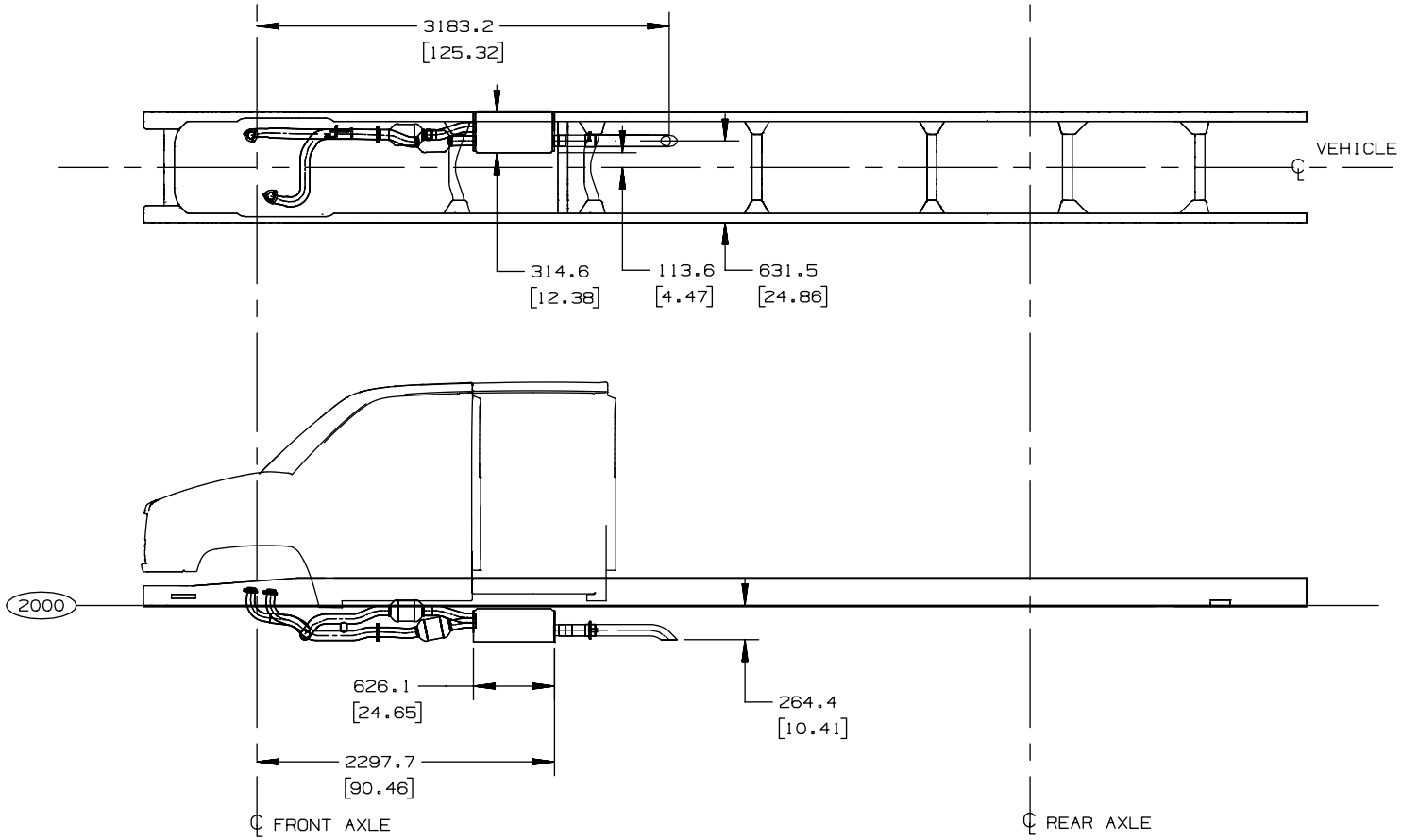


AIR TANK AND COMPRESSOR
GMT 560, C4/5CEUV042, 2003

[ ] = INCHES

TD005950

C4/C5C,E042 Gas Engine L18 Option NB5



GMT 560,C4C0/C5C0-42

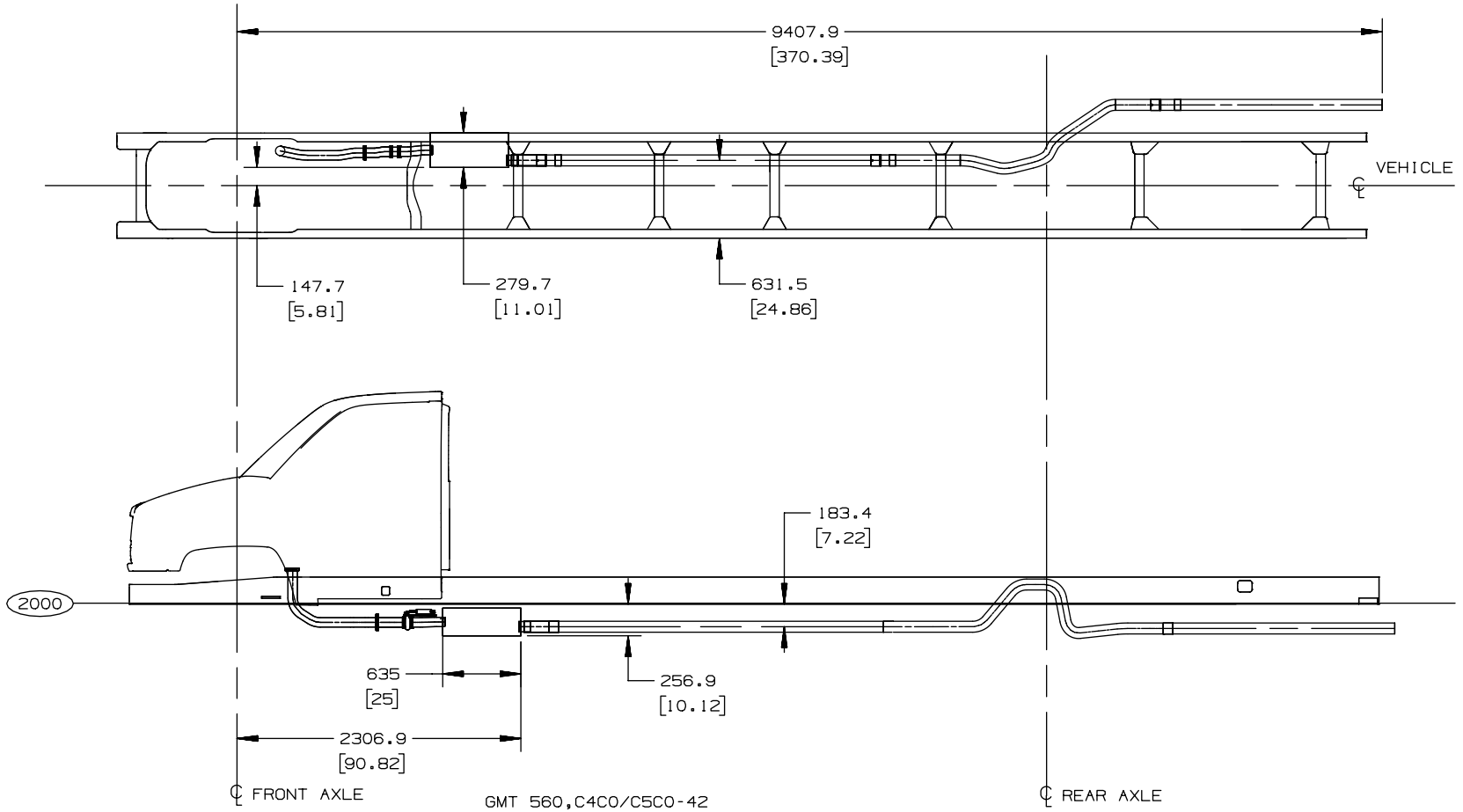
GMT 560,C4E0/C5E0-42

EXHAUST SYSTEM INST.(CONVENTIONAL & CREW CAB)
AVAILABLE WITH GAS ENGINE (L18) UNLEADED FUEL OPTION NM2
RPO-FRP,W/B 235"

[ ] = INCHES

TD005953a

C4/C5C,U,V042 Diesel Engine LB7 Option N12



GMT 560,C4C0/C5C0-42

GMT 560,C4U0/C5U0-42

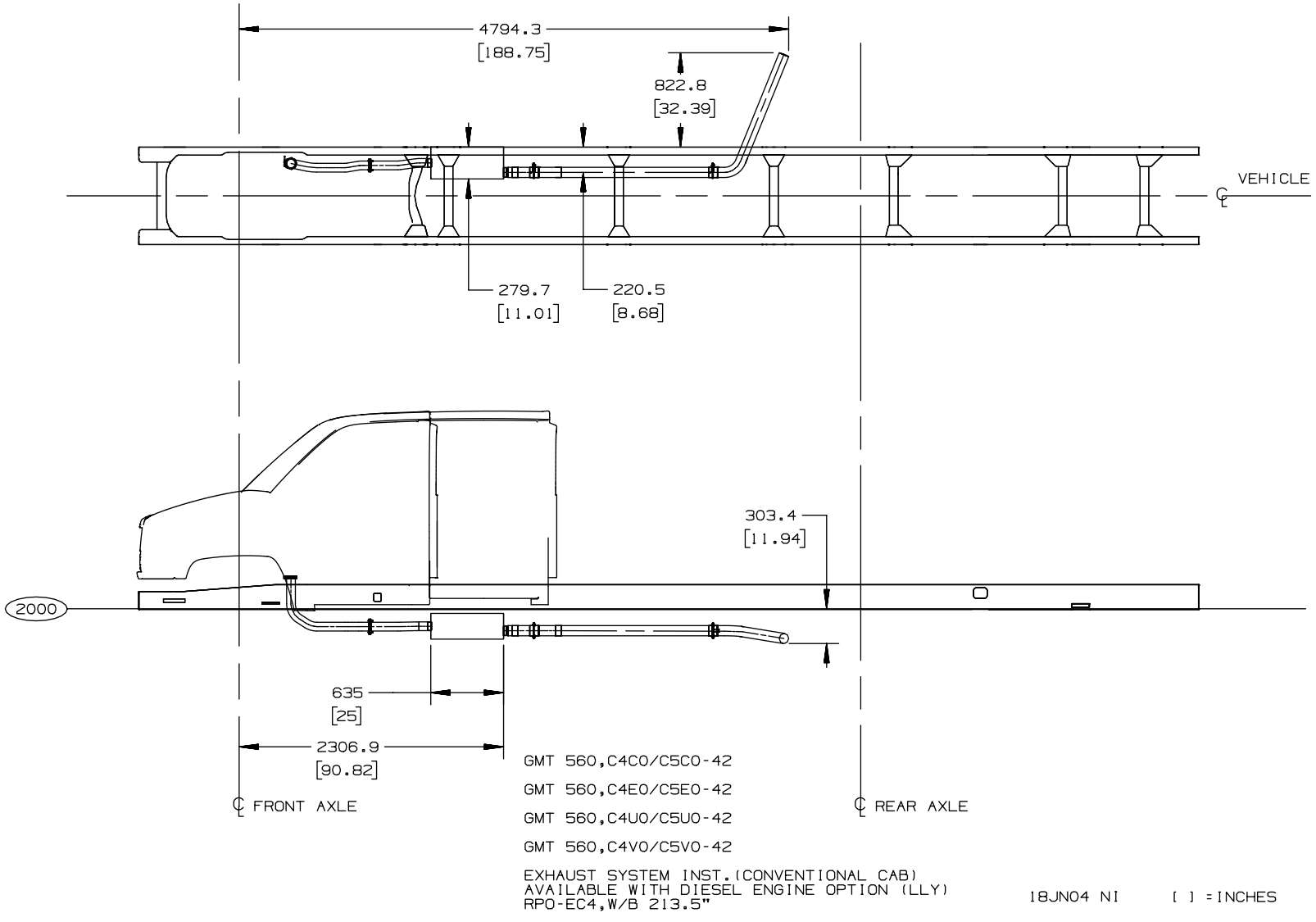
GMT 560,C4V0/C5V0-42

EXHAUST SYSTEM INST.(STD CAB)
AVAILABLE WITH DIESEL ENGINE (LLY)
RPO-ET7,W/B 259"

18JN04 NI [ ] = INCHES

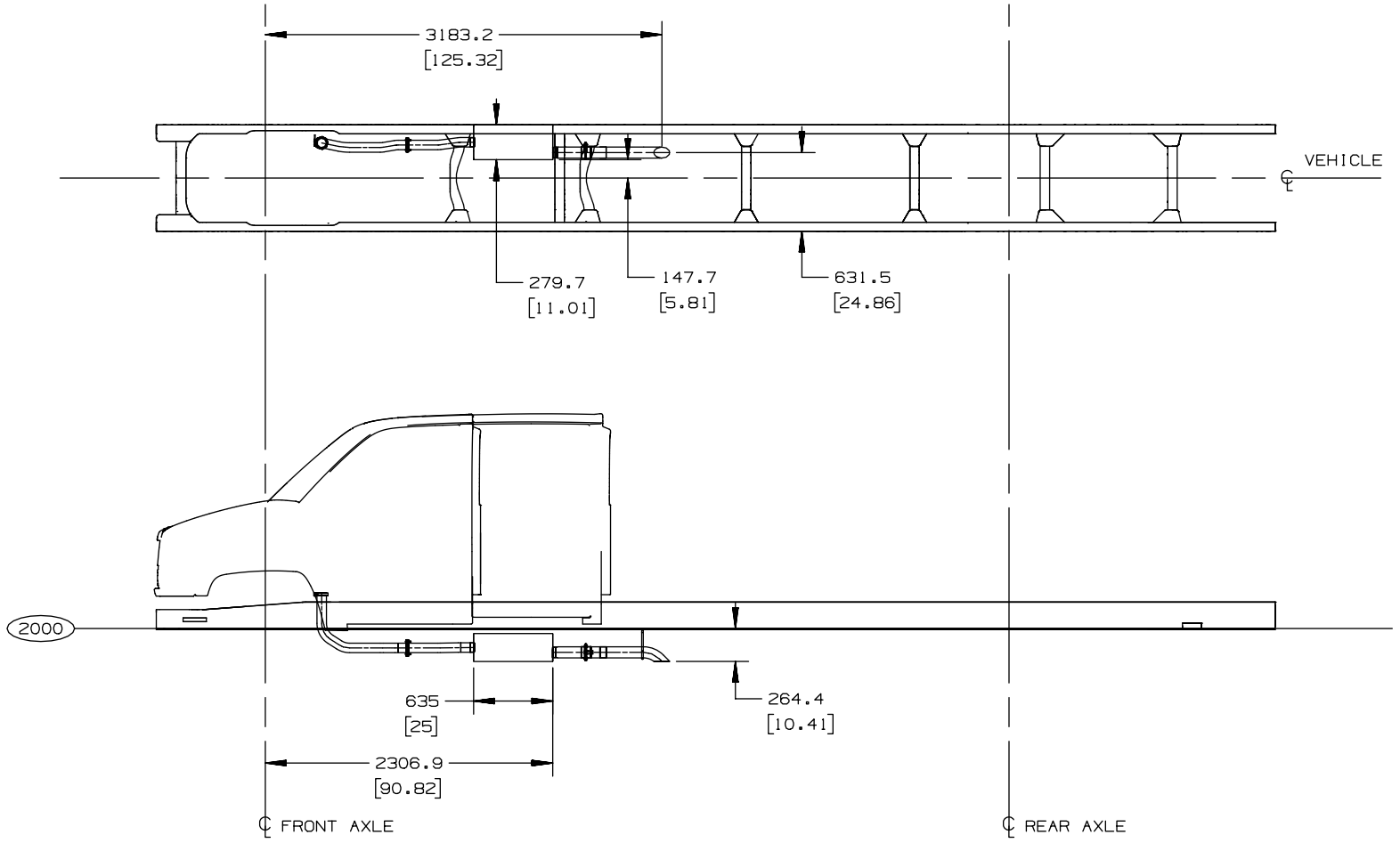
TD005953b

C4/C5C,U,V042 Diesel Engine LB7 Option N1B



TD005953c

C4/C5C,E042 Diesel Engine LB7 Option NB5



GMT 560,C4C0/C5C0-42

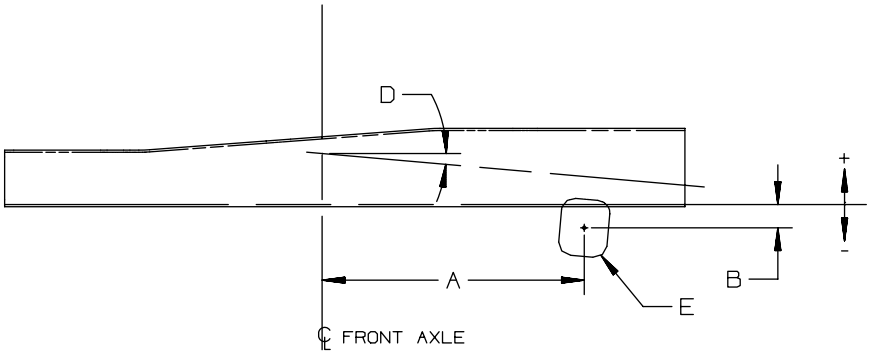
GMT 560,C4E0/C5E0-42

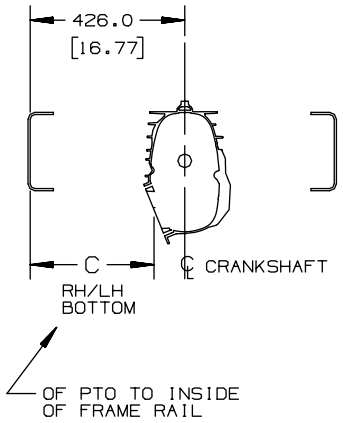
EXHAUST SYSTEM INST.(CONVENTIONAL & CREW CAB)
AVAILABLE WITH DIESEL ENGINE OPTION (LLY)
RPO-FRP,W/B 235"

18JN04 NI [ ] = INCHES

TD005953d

Power Take Off Location and Chart





ENGINE	TRANSMISSION	LOCATION	DIM A	DIM B	DIM C	DIM D	DIM E
L18 8.1L GAS	ZF S6-650 (ML6)	LH	723.0	-58.6	347.2	5.0°	6 BOLT
		RH	—	—	—	—	—
	ALLISON LCT2400 (MTW)	LH	713.8	+78.1	288.0	5.0°	6 BOLT
		RH	713.8	+78.1	262.0	5.0°	6 BOLT
	ALLISON LCT1000 (M74)	LH	713.8	+78.0	287.7	5.0°	6 BOLT
		RH	713.8	+78.0	262.2	5.0°	6 BOLT
LB7 6.6L DIESEL	ZF S6-650 (ML6)	LH	723.0	-58.6	341.3	5.0°	6 BOLT
		RH	—	—	—	—	—
	ALLISON LCT2400 (MTW)	LH	713.8	+78.1	288.0	5.0°	6 BOLT
		RH	713.8	+78.1	262.0	5.0°	6 BOLT
	ALLISON LCT1000 (M74)	LH	713.7	+78.1	288.0	5.0°	6 BOLT
		RH	713.7	+78.1	262.0	5.0°	6 BOLT

EXPLANATION OF LETTERED DIMENSIONS

A= FRONT AXLE TO PTO OPENING
B= BOTTOM INSIDE OF FRAME RAIL TO PTO OPENING
C= INSIDE OF FRAME RAIL TO PTO OPENING
D= DRIVELINE ANGLE
E= POWER TAKE OFF MOUNTING

C400/C500 00
TRANSMISSION, POWER TAKE OFF LOCATION

[ ] = INCHES

TD005881

C4/C5C,E,V042 Available Vocational Packages

	Models	C4C/C5C 042	C4E/C5E 042	C4V/C5V 042
Option	Description			
ANC	Shuttle Bus			X
ANM	Fire & Rescue			X
ANQ	Snow Removal	X		
B3D	School Bus			X
YF2	Ambulance			X
YW2	Towing & Recovery	X	X	

C4C042 2WD Regular Cab Vocational Package

C4C042-2WD Regular Cab OPTIONAL EQUIPMENT		
OPTION CODE	DESCRIPTION	C4C042
	PACKAGES • The packages below contain recommended option content that is designed to address all industry and government requirements for each specific vocational application. • These packages are designed to help guide the sales person in ordering a vehicle for each vocation. • By grouping these options together, allows General Motors to merchandise these options as packaging options.	
ANQ	Snow Plow Prep — (Includes FM7 7,000 lbs. (3,175 kg) front axle, G80 limited slip differential, VNF battery isolator, GRW Stationary grille (Radiator Mounted), TNQ 700 CCA battery w/gasoline engines, or TNN dual 700 CCA batteries w/diesel engines.) (Requires C7R or GZX GVWRs). *With diesel engines and TNN dual 700 CCA batteries / With gasoline engines and TNQ 700 CCA battery*	A
YW2	Wrecker — (Includes GQ2 15,000 lbs. (6,804 kg) rear suspension, J69 rear in-wheel park brake, K65 105-amp. dual alternators.) (Requires NK1 25 gal. (95 L) midship fuel tank mounted inside the frame rail. With gasoline engines, requires TNL dual 750 CCA batteries or VNF isolator battery. With diesel engines requires TNR triple 700 CCA batteries or VNF isolator battery.) (Requires GZX GVWR.)	A

S = Standard; A = Available; W/A = Will Advise; N/C = No Charge

C4E042 2WD Crew Cab Vocational Package

C4E042-2WD Crew Cab OPTIONAL EQUIPMENT		
OPTION CODE	DESCRIPTION	C4E042
	PACKAGES • The packages below contain recommended option content that is designed to address all industry and government requirements for each specific vocational application. • These packages are designed to help guide the sales person in ordering a vehicle for each vocation. • By grouping these options together, allows General Motors to merchandise these options as packaging options.	
YW2	Wrecker — (Includes GQ2 15,000 lbs. (6,804 kg) rear suspension, J69 rear in-wheel park brake, K65 105-amp. dual alternators.) (Requires NK1 25 gal. (95 L) midship fuel tank mounted inside the frame rail. With gasoline engines, requires TNL dual 750 CCA batteries or VNF isolator battery. With diesel engines requires TNR triple 700 CCA batteries or VNF isolator battery.) (Requires GZX GVWR.)	A

S = Standard; A = Available; W/A = Will Advise; N/C = No Charge

C4V042 2WD Commercial Cutaway Vocational Package

C4V042-2WD Commercial Cutaway OPTIONAL EQUIPMENT		
OPTION CODE	DESCRIPTION	C4V042
	PACKAGES • The packages below contain recommended option content that is designed to address all industry and government requirements for each specific vocational application. • These packages are designed to help guide the sales person in ordering a vehicle for each vocation. • By grouping these options together, allows General Motors to merchandise these options as packaging options.	
ANC	Shuttle Bus — (Includes C60 air conditioning, UZA roof marker delete, N12 rear exit exhaust system, UEA tail lamp delete, provisions for rear heat on driver side, battery located under driver door.) (Requires TNQ 700 CCA battery with gasoline engines, TNN dual 700 CCA batteries with diesel engines, Q82 front and Q83 rear 19.5" x 6.75" (49.5 cm x 17.1 cm) steel wheels or RPM front and RPW rear 19.5" x 6.75" (49.5 cm x 17.1 cm) aluminum wheels, aft axle fuel tank with dual auxiliary fuel ports and driver side/passenger side fill capability, APL passenger seat delete, WE7 passenger door delete, and D28 outside rear view mirrors deleted.) (N/A with Q91 or Q92 front and rear wheels.)	A
ANM	Fire & Rescue — (Includes C60 air conditioning with rear body heater and A/C connections, TNN 700 dual batteries, VNF isolator battery, High RPM prom for automatic throttle control, and 2" (5 cm) to 2.5" (6.35 cm) seal through cab cowl for equipment/control wiring.) (Requires K65 dual 105-amp. alternators, G80 limited slip differential, diesel engine.) (N1B passenger side exit exhaust is recommended.) (N/A with KG4 150-amp alternator.)	A
B3D	School Bus — (Includes WE7 passenger door delete, APL passenger seat delete, N12 rear exit exhaust system, Q82 front and Q83 rear 19.5" x 6.75" (49.5 cm x 17.2 cm) steel wheels, 41P black painted wheels, VH6 black front bumper, UEA tail lamp delete, UZA roof marker delete, propshaft guards, rear fuel tank cage, provisions for rear heat on drivers side, and battery located under driver door.) (Requires TNQ 700 CCA battery with gasoline engines, UL5 radio delete, D28 outside rear view mirrors deleted, and Aft-axle fuel tank with dual auxiliary fuel ports and driver side/passenger side fill capability.) (N/A Q91 or Q92 front and rear wheels, and N1B exhaust.)	A
YF2	Ambulance — (Includes C60 air conditioning with rear body heater and A/C connections, TNN 700 dual batteries, VNF isolator battery, High RPM prom for automatic throttle control, and 2" (5 cm) to 2.5" (6.35 cm) seal through cab cowl for equipment/control wiring.) (Requires K65 dual 105-amp. alternators, G80 limited slip differential, diesel engine.) (N1B passenger side exit exhaust is recommended.) (N/A with KG4 150-amp alternator.)	A

S = Standard; A = Available; W/A = Will Advise; N/C = No Charge

C5C042 2WD Regular Cab Vocational Package

C5C042-2WD Regular Cab OPTIONAL EQUIPMENT		
OPTION CODE	DESCRIPTION	C5C042
	PACKAGES • The packages below contain recommended option content that is designed to address all industry and government requirements for each specific vocational application. • These packages are designed to help guide the sales person in ordering a vehicle for each vocation. • By grouping these options together, allows General Motors to merchandise these options as packaging options.	
ANQ	Snow Plow Prep — (Includes FM7 7,000 lbs. (3,175 kg) front axle, G80 limited slip differential, VNF battery isolator, GRW Stationary grille (Radiator Mounted), TNQ 700 CCA battery with gasoline engines, or TNN dual 700 CCA batteries with diesel engines.) (Requires GZG or GZJ GVWRs). *With diesel engines and TNN dual 700 CCA batteries / With gasoline engines and TNQ 700 CCA battery*	A
YW2	Wrecker — (Includes GQ2 15,000 lbs. (6,804 kg) rear suspension, J69 rear in-wheel park brake, K65 105-amp. dual alternators.) (Requires NK1 25 gal. (95 L) midship fuel tank mounted inside the frame rail. With gasoline engines, requires TNL dual 750 CCA batteries or VNF isolator battery. With diesel engines requires TNR triple 700 CCA batteries or VNF isolator battery.) (Requires GZG or GZJ GVWRs.)	A

S = Standard; A = Available; W/A = Will Advise; N/C = No Charge

C5E042 2WD Crew Cab Vocational Package

C5E042-2WD Crew Cab OPTIONAL EQUIPMENT		
OPTION CODE	DESCRIPTION	C5E042
	PACKAGES • The packages below contain recommended option content that is designed to address all industry and government requirements for each specific vocational application. • These packages are designed to help guide the sales person in ordering a vehicle for each vocation. • By grouping these options together, allows General Motors to merchandise these options as packaging options.	
YW2	Wrecker — (Includes GQ2 15,000 lbs. (6,804 kg) rear suspension, J69 rear in-wheel park brake, K65 105-amp. dual alternators.) (Requires NK1 25 gal. (95 L) midship fuel tank mounted inside the frame rail. With gasoline engines, requires TNL dual 750 CCA batteries or VNF isolator battery. With diesel engines requires TNR triple 700 CCA batteries or VNF isolator battery.) (Requires GZG or GZJ GVWRs.)	A

S = Standard; A = Available; W/A = Will Advise; N/C = No Charge

C5V042 2WD Commercial Cutaway Vocational Package

C5V042-2WD Commercial Cutaway OPTIONAL EQUIPMENT		
OPTION CODE	DESCRIPTION	C5V042
	PACKAGES • The packages below contain recommended option content that is designed to address all industry and government requirements for each specific vocational application. • These packages are designed to help guide the sales person in ordering a vehicle for each vocation. • By grouping these options together, allows General Motors to merchandise these options as packaging options.	
ANC	Shuttle Bus — (Includes C60 air conditioning, UZA roof marker delete, N12 rear exit exhaust system, UEA tail lamp delete, provisions for rear heat on driver side, provisions for 100-amp. service on driver side, battery located under driver door.) (Requires TNQ 700 CCA battery with gasoline engines, TNN dual 700 CCA batteries with diesel engines, Q82 front and Q83 rear 19.5" x 6.75" (49.5 cm x 17.1 cm) steel wheels or RPM front and RPW rear 19.5" x 6.75" (49.5 cm x 17.1 cm) aluminum wheels, aft axle fuel tank with dual auxiliary fuel ports and driver side/ passenger side fill capability, APL passenger seat delete, WE7 passenger door delete, and D28 outside rear view mirrors deleted.) (Frames: With GZG or GJZ GVWRs, includes a 6 mm 50,000 psi (344,750 kPa) yield strength, steel frame, RBM: 381,500 Section Modulus 7.63. With C4I or C6V GVWRs, includes a 80,000 psi (551,600 kPa) yield strength, steel frame, RBM: 824,800 Section Modulus 10.31.)	A
ANM	Fire & Rescue — (Includes C60 air conditioning with rear body heater and A/C connections, TNN 700 dual batteries, VNF isolator battery, High RPM prom for automatic throttle control, and 2" (5 cm) to 2.5" (6.35 cm) seal through cab cowl for equipment/control wiring.) (Requires K65 dual 105-amp. alternators, G80 limited slip differential, diesel engine.) (N1B passenger side exit exhaust is recommended.) (N/A with KG4 150-amp alternator.)	A
B3D	School Bus — (Includes WE7 passenger door delete, APL passenger seat delete, N12 rear exit exhaust system, Q82 front and Q83 rear 19.5" x 6.75" (49.5 cm x 17.2 cm) steel wheels, 41P black painted wheels, VH6 black front bumper, UEA tail lamp delete, UZA roof marker delete, propshaft guards, rear fuel tank cage, provisions for rear heat on drivers side, and battery located under driver door.) (Requires TNQ 700 CCA battery with gasoline engines, TNN dual 700 CCA batteries with diesel engines, UL5 radio delete, D28 outside rear view mirrors deleted, and Aft-axle fuel tank with dual auxiliary fuel ports and driver side/passenger side fill capability.) (Frames: With GZG or GJZ GVWRs, includes a 6 mm 50,000 psi (344,750 kPa) yield strength, steel frame, RBM: 381,500 Section Modulus 7.63. With C4I or C6V GVWRs, includes a 80,000 psi (551,600 kPa) yield strength, steel frame, RBM: 824,800 Section Modulus 10.31.) (N/A with N1B exhaust.)	A

S = Standard; A = Available; W/A = Will Advise; N/C = No Charge

(Continued on next page)

C5V042 2WD Commercial Cutaway Vocational Package (Continued)

C5V042-2WD Commercial Cutaway OPTIONAL EQUIPMENT		
OPTION CODE	DESCRIPTION	C5V042
	PACKAGES • The packages below contain recommended option content that is designed to address all industry and government requirements for each specific vocational application. • These packages are designed to help guide the sales person in ordering a vehicle for each vocation. • By grouping these options together, allows General Motors to merchandise these options as packaging options.	
YF2	Ambulance — (Includes C60 air conditioning with rear body heater and A/C connections, TNN 700 dual batteries, VNF isolator battery, High RPM prom for automatic throttle control, and 2" (5 cm) to 2.5" (6.35 cm) seal through cab cowl for equipment/control wiring.) (Requires K65 dual 105-amp. alternators, G80 limited slip differential, diesel engine.) (N1B passenger side exit exhaust is recommended.) (N/A with KG4 150-amp alternator.)	A

S = Standard; A = Available; W/A = Will Advise; N/C = No Charge

2004 Medium Duty C Series – Family 2

Steel Wheels

HUB PILOT										MTG					
HAND HOLE color	SIZE	OPTION		PART NO.	VENDOR NO.	OS	THK	-OS	TYPE	BC DIA	NO. STUDS	FRT	RR	BIAS/RADIAL RATING	TR VALVE
		FRONT	REAR												
4	19.5X6.75	Q82	Q83	15955706	RA 26680-1	5.60	.437	5.16	DCT	275mm	8	PQR	PQS	5000 @ 115	
4	19.5X6.75	Q82&	Q82&	15955707	RA 26680-1	5.60	.437	5.16	DCT	275mm	8	PQR	PQS	5000 @ 115	
4	19.5X6.75	Q82&	Q82&	15013127	RA 26680-1	5.60	.437	5.16	DCT	275mm	8	PQR	PQS	5000 @ 115	
	19.5X6.75	Q82&41P	Q82&41P	15044910	RA 26680-1	5.60	.437	5.16	DCT	275mm	8	PQR	PQS	5000 @ 115	

Aluminum Wheels

HUB PILOT																	
VENT HOLE	SIZE	OPTION		PART NO.	VENDOR NO.	OS	THK	-OS	TYPE	BC DIA	NO. STUDS	FRT	RR	BIAS/RADIAL RATING	VLV ASM	TR VALVE	MFG
		FRONT	REAR														
8	19.5X6.75	RPM&YU8		15033287	764483	5.551	.827	4.739	DCT	275mm	8	PVG		5500 @ 140	VIEW S	TR5343	*Alcoa*
4	19.5X6.75		RPW&PNB INNER	15955706	RA 28680-1	5.60	.437	5.16	DCT	275mm	8		PVH	5000 @ 115	VIEW T		*Accuride*
8	19.5X6.75		RPW&PNB OUTER	15033287	764483	5.551	.827	4.739		275mm	8		PVH	5500 @ 140	VIEW T	TR543	*Alcoa*

(Wheels and Tires – continued on next page)

(Wheels and Tires – continued from previous page)

Tire Data

Tire Size	Tire RPO	Tread RPO	Tread Type	Goodyear Mfr. RPO code: R4A/S4A			Michelin Mfr. RPO code: R4L/S4L			Bridgestone Mfr. RPO code: R4N/S4N		
				SLR	RPM	DESC	SLR	RPM	DESC	SLR	RPM	DESC
225/70R19.5F	X/Y/ZTN	R3C/S3C	Prem Hwy	15	642	G159	14.8	646	PXZA			
		S3H	Traction	15.1	641	G124	X					
		R3M/S3M	All Season							X		
		R3S/S3S	Motorhome				X					

WHEEL USAGE	Q82/Q83	19.5X6.75	Steel							8 Hole		
	RPM/RPW	19.5X6.75	Aluminum							8 Hole		
	Q91/Q92	19.5X6.0	Steel	To be released						8 Hole		

CODES		R3C/S3C	Premium Highway
		S3H	Highway Traction
		R3M/S3M	All Season
		R3S/S3S	High Rib – Motorhome Specific

X – Data not available at time of publication.

(Wheels and Tires – continued on next page)

(Wheels and Tires – continued from previous page)

NOTES:	1) Tire Size RPO Codes beginning with: X – are front tires, Y – are rear tires, Z – are spare tires.
	2) RPO P53 specifies spare tire matching front tire, P54 matches rear tire.
	3) Tread Code and Manufacturer Code RPO's beginning with: R – are front tires, S – are rear tires.
	4) Orders specifying: S3C rear treads require R3C front treads.
	S3M rear treads require R3M front treads.
	S3S rear treads require R3S front treads.